

NM2 - 2

**MONITORING
REPORTS
YEAR(S):**

2016 - 2018

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

USPS Certified: 7012 1010 0002 1168 7494

March 2, 2017

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Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Annual Report: Permit NM-02-0002
BP Schneider Waste Management Facility
SW/4 Sec. 28 - T32N - R10W, San Juan County, NM

Dear Mr. Jones:

On behalf of BP America Production Co., Blagg Engineering, Inc. (BEI) is submitting this annual report for the Schneider Waste Management Facility, Permit NM-02-0002. This report is for 2016 calendar year monitoring. Attached are spread sheets summarizing weekly evaporation pond and monthly sump monitoring inspection results.

General Pond Monitoring

During the 2016 monitoring year, weekly inspections did not indicated the generation of dissolved sulfide or hydrogen sulfide gas during any inspections. Normal produced water inflow to the evaporation facility was suspended for the entire year. For most inspections the pond was dry, or had only a trace of precipitation water at levels too low to measure parameters (pH, temperature, dissolved oxygen). Freeboard exceeded 3.4 feet for the entire year

Landfarm Treatment Zone Monitoring

No landfarm cells were constructed during the 2016 calendar year and no treatment zone monitoring was required or performed.

Evaporation Pond Sludge Thickness

Sludge thickness was measured on April 25, 2016. On this date most of the measurement points tested at less than 3/4-inch, with an average overall thickness of 1.0 inches.

Leak Detection System Monitoring

Year-end leak detection monitoring indicates the liner system has good integrity with no leaks. The pond was lined with a new PVC liner and secondary leak detection system in 2005. This newer (shallow) leak detection system did not record any accumulations of water. An older, deep leak detection system has been left in place as a backup and small amounts of fluid accumulation (<0.1 gallon/day) from water trapped within the older system continues to be observed and periodically removed.

Questions or comments concerning this transmittal may be directed to myself at (505)320-1183 or John Ritchie with BP at (505)326-9200.

Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Monitoring Spread Sheets

cc: Brandon Powell, NMOCD Aztec District Office
John Ritchie, BP SJ Operations Center

**BP America Production Company
Schneider Waste Management Facility
Field Inspection Data Summary
2016**

Inspection Date	Wind Speed (MPH)	Wind Direction (Degrees)	H2S (ppm)	Dissolved Sulfide (ppm)	Dissolved Oxygen (ppm)	Temp. (celcius)	pH	Free Board (feet)	Liner/Berm Integrity	Comments
01/04/2016	2-5	180	0.0	--	--	--	--	>3.4'	Y	Trace precipitation water only
01/15/2016	5-8	45	0.0	--	--	--	--	>3.4'	Y	"
01/20/2016	10-15	270	0.0	--	--	--	--	>3.4'	Y	"
01/28/2016	3-5	135	0.0	--	--	--	--	>3.4'	Y	"
02/03/2016	5-8	0	0.0	--	--	--	--	>3.4'	Y	"
02/08/2016	2-4	45	0.0	--	--	--	--	>3.4'	Y	"
02/17/2016	5-8	45	0.0	--	--	--	--	>3.4'	Y	"
02/22/2016	Calm	--	0.0	--	--	--	--	>3.4'	Y	"
02/29/2016	4-6	180	0.0	--	--	--	--	>3.4'	Y	"
03/07/2016	8-10	270	0.0	--	--	--	--	>3.4'	Y	"
03/14/2016	5-10	235	0.0	--	--	--	--	>3.4'	Y	"
03/24/2016	Calm	--	0.0	--	--	--	--	>3.4'	Y	"
03/29/2016	15-25	210	0.0	--	--	--	--	>3.4'	Y	"
04/05/2016	2-4	90	0.0	--	--	--	--	>3.4'	Y	"
04/11/2016	Calm	--	0.0	--	--	--	--	>3.4'	Y	"
04/18/2016	Calm	--	0.0	--	--	--	--	>3.4'	Y	"
04/25/2016	10-15	270	0.0	--	--	--	--	>3.4'	Y	"
04/25/2016	Measure Sludge: Average Thickness at an average of 1-inch: Minimum 0.0", Maximum 4-inches (NW Corner)									
05/04/2016	5-10	45	0.0	--	--	--	--	>3.4'	Y	"
05/11/2016	2-6	180	0.0	--	--	--	--	>3.4'	Y	"
05/18/2016	8-12	270	0.0	--	--	--	--	>3.4'	Y	"
05/26/2016	5-10	235	0.0	--	--	--	--	>3.4'	Y	"
06/01/2016	4-8	90	0.0	--	--	--	--	>3.4'	Y	Dry - Some Salt on Base
06/08/2016	10-15	260	0.0	--	--	--	--	>3.4'	Y	"

Inspection Date	Wind Speed (MPH)	Wind Direction (Degrees)	H2S (ppm)	Dissolved Sulfide (ppm)	Dissolved Oxygen (ppm)	Temp. (celcius)	pH	Free Board (feet)	Liner/Berm Integrity	Comments
06/14/2016	Calm	--	0.0	--	--	--	--	>3.4'	Y	"
06/20/2016	8-10	135	0.0	--	--	--	--	>3.4'	Y	"
06/27/2016	0-1	0	0.0	--	--	--	--	>3.4'	Y	"
07/01/2016	Calm	--	0.0	--	--	--	--	>3.4'	Y	Trace precipitation water only
07/07/2016	5-8	90	0.0	--	--	--	--	>3.4'	Y	"
07/15/2016	8-12	180	0.0	--	--	--	--	>3.4'	Y	"
07/19/2016	2-4	0	0.0	--	--	--	--	>3.4'	Y	"
07/25/2016	2-6	235	0.0	--	--	--	--	>3.4'	Y	"
08/03/2016	4-8	270	0.0	--	--	--	--	>3.4'	Y	"
08/10/2016	1-3	135	0.0	0.0	TSTM	30 C	8.1	>3.4'	Y	About 1" Precipitation Water
08/15/2016	2-5	0	0.0	--	--	--	--	>3.4'	Y	Trace precipitation water only
08/22/2016	0-2	45	0.0	--	--	--	--	>3.4'	Y	"
08/29/2016	Calm	--	0.0	--	--	--	--	>3.4'	Y	"
09/02/2016	2-4	270	0.0	--	--	--	--	>3.4'	Y	"
09/07/2016	2-4	180	0.0	--	--	--	--	>3.4'	Y	"
09/13/2016	5-10	150	0.0	--	--	--	--	>3.4'	Y	"
09/23/2016	1-3	210	0.0	--	--	--	--	>3.4'	Y	"
09/26/2016	2-4	210	0.0	--	--	--	--	>3.4'	Y	"
10/03/2016	5-15	180	0.0	--	--	--	--	>3.4'	Y	"
10/11/2016	4-8	0	0.0	--	--	--	--	>3.4'	Y	"
10/17/2016	5-10	270	0.0	--	--	--	--	>3.4'	Y	"
10/28/2016	5-10	45	0.0	--	--	--	--	>3.4'	Y	"
11/04/2016	Calm	--	0.0	--	--	--	--	>3.4'	Y	"
11/10/2016	3-5	270	0.0	--	--	--	--	>3.4'	Y	"
11/18/2016	1-4	135	0.0	--	--	--	--	>3.4'	Y	"
11/21/2016	8-12	45	0.0	--	--	--	--	>3.4'	Y	"
12/01/2016	Calm	--	0.0	--	--	--	--	>3.4'	Y	"
12/07/2016	4-8	270	0.0	0.0	TSTM	4.2 C	8.8	>3.4'	Y	Precipitation, about 1-Inch on 2/3 of pond
12/14/2016	Calm	--	0.0	0.0	TSTM	3.6 C	8.9	>3.4'	Y	Precipitation, about 1-Inch on 2/3 of pond
12/23/2016	1-2	180	0.0	0.0	TSTM	2.9 C	8.7	>3.4'	Y	Precipitation, about 1-Inch on 90% of pond
12/27/2016	3-5	0	0.0	0.0	TSTM	0.7 C	8.8	>3.4'	Y	Precipitation, about 1-Inch on 90% of pond

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February 23, 2016

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Landfarm Treatment Zone Monitoring

No landfarm cells were constructed during the 2015 calendar year and no treatment zone monitoring was required or performed.

Evaporation Pond Sludge Thickness

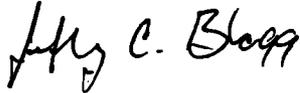
Sludge thickness was measured on November 18, 2015. On this date most of the measurement points tested at less than 3/4-inch, with an average overall thickness of 0.9 inches.

Leak Detection System Monitoring

Year-end leak detection monitoring indicates the liner system has good integrity with no leaks. The pond was lined with a new PVC liner and secondary leak detection system in 2005. This newer (shallow) leak detection system did not record any accumulations of water. An older, deep leak detection system has been left in place as a backup and small amounts of fluid accumulation (<0.1 gallon/day) from water trapped within the older system continues to be observed and periodically removed.

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**BP America Production Company
Schneider Waste Management Facility
Field Inspection Data Summary
2015**

Inspection Date	Wind Speed (MPH)	Wind Direction (Degrees)	H2S (ppm)	Dissolved Sulfide (ppm)	Dissolved Oxygen (ppm)	Temp. (celcius)	pH	Free Board (feet)	Liner/Berm Integrity	Comments
01/05/2015	2-4	From 120	0	NA	NA	NA	NA	>3.4'	YES	Pond Dry. All Pond Inflow Off.
01/12/2015	3-5	From 0	0	NA	NA	NA	NA	>3.4'	YES	"
01/20/2015	6-8	From 180	0	NA	NA	NA	NA	>3.4'	YES	"
01/27/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	"
02/03/2015	3-5	From 270	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
02/09/2015	8-12	From 270	0	NA	NA	NA	NA	>3.4'	YES	"
02/16/2015	6-8	From 135	0	NA	NA	NA	NA	>3.4'	YES	"
02/23/2015	2-4	From 90	0	NA	NA	NA	NA	>3.4'	YES	"
03/02/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
03/09/2015	3-5	From 90	0	NA	NA	NA	NA	>3.4'	YES	"
03/16/2015	6-8	From 235	0	NA	NA	NA	NA	>3.4'	YES	"
03/23/2015	2-4	From 90	0	NA	NA	NA	NA	>3.4'	YES	"
03/30/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	"
04/02/2015	3-5	From 0	0	NA	NA	NA	NA	>3.4'	YES	"
04/06/2015	2-4	From 180	0	NA	NA	NA	NA	>3.4'	YES	"
04/15/2015	12-18	From 270	0	NA	NA	NA	NA	>3.4'	YES	"
04/20/2015	6-8	From 90	0	NA	NA	NA	NA	>3.4'	YES	"
04/27/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	"
05/04/2015	10-15	From 180	0	NA	NA	NA	NA	>3.4'	YES	"
05/13/2015	2-4	From 310	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
05/20/2015	6-8	From 90	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
05/25/2015	8-12	From 180	0	NA	NA	NA	NA	>3.4'	YES	"
06/01/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	"
06/08/2015	8-12	From 270	0	NA	NA	NA	NA	>3.4'	YES	"

Inspection Date	Wind Speed (MPH)	Wind Direction (Degrees)	H2S (ppm)	Dissolved Sulfide (ppm)	Dissolved Oxygen (ppm)	Temp. (celcius)	pH	Free Board (feet)	Liner/Berm Integrity	Comments
06/15/2015	2-4	From 0	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
06/22/2015	4-8	From 120	0	NA	NA	NA	NA	>3.4'	YES	"
06/29/2015	3-5	From 180	0	NA	NA	NA	NA	>3.4'	YES	"
07/06/2015	2-4	From 90	0	NA	NA	NA	NA	>3.4'	YES	"
07/13/2015	6-8	From 270	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
07/20/2015	10-15	From 180	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
07/27/2015	2-4	From 0	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
08/05/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	"
08/12/2015	8-12	From 310	0	NA	NA	NA	NA	>3.4'	YES	"
08/19/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	"
08/24/2015	2-4	From 90	0	NA	NA	NA	NA	>3.4'	YES	"
09/02/2015	7-10	From 270	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
09/09/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
09/15/2015	10-15	From 180	0	NA	NA	NA	NA	>3.4'	YES	"
09/21/2015	3-5	From 90	0	NA	NA	NA	NA	>3.4'	YES	"
09/28/2015	6-8	From 135	0	NA	NA	NA	NA	>3.4'	YES	"
10/02/2015	10-15	From 180	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
10/07/2015	2-4	From 90	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
10/12/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
10/19/2015	6-8	From 270	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
10/26/2015	10-15	From 180	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
11/04/2015	3-5	From 90	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
11/10/2015	10-15	From 90	0	NA	NA	NA	NA	>3.4'	YES	Pond precip. being pumped dry by vacuum truck
11/18/2015	2-4	From 90	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond. Measure Sludge.
11/23/2015	8-12	From 270	0	NA	NA	NA	NA	>3.4'	YES	"
12/03/2015	3-5	From 270	0	NA	NA	NA	NA	>3.4'	YES	"
12/07/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	"
12/14/2015	6-8	From 135	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
12/21/2015	4-8	From 120	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond
12/29/2015	Calm	NA	0	NA	NA	NA	NA	>3.4'	YES	" Trace Precip Water in Pond

Schneider Waste Management Facility Monthly Sump Inspection Field Data 2015

Inspection Date	Water In Sumps	New NE SUMP				New SE SUMP				Comments
		Dissolved Sulfide (ppm)	Dissolved Oxygen (ppm)	Temp. (celcius)	pH	Dissolved Sulfide (ppm)	Dissolved Oxygen (ppm)	Temp. (celcius)	pH	
01/05/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	Minor Precip Water Only Entering Sumps in Old (deep) Sump System (water in sumps is below inlet) New Sump Inspection System Dry
02/03/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
03/02/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
04/02/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
05/04/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
06/01/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
07/06/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
08/05/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
09/02/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
10/02/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
11/04/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	"
11/11/2015	Yes	--	--	--	--	--	--	--	--	Old sumps being pumped dry with vac truck
12/03/2015	Trace Only	NA	NA	NA	NA	NA	NA	NA	NA	No new water in sumps