

GALLUP

CERTIFIED RETURN RECEIPT 7014 1200 0001 8798 3117

October 24, 2017

Mr. John E. Kieling, Chief  
New Mexico Environment Department  
Hazardous Waste Bureau  
2905 Rodeo Park Drive East, Bldg 1  
Santa Fe, New Mexico 87505-6303



RE: HYDROCARBON SEEP INTERIM MEASURES 2017 3rd QUARTER STATUS REPORT  
WESTERN REFINING SOUTHWEST, INC. GALLUP REFINERY  
EPA ID # NMD000333211  
HWB-WRG-15-006

Dear Mr. Kieling:

The attached third quarter report was prepared pursuant to Comment 22 in your letter dated April 26, 2016 on the Interim Measures Report Hydrocarbon Seep Area. Comment 22 requests a quarterly status report.

If there are any questions regarding the enclosed Report, please contact Mr. Bill Bailey at (505) 726-9743.

## Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Mr. Daniel J. Statile  
VP Refining

cc C. Chavez, OCD  
A. Hains, Andeavor-EI Paso  
C Johnson, Andeavor-GLP

**QUARTERLY STATUS REPORT  
HYDROCARBON SEEP INTERIM MEASURES  
WESTERN REFINING SOUTHWEST, INC – GALLUP REFINERY  
Third Quarter 2017**

Activities conducted during third quarter 2017

- Source Control – Western continued to remove separate-phase hydrocarbon (SPH) and groundwater from the standpipe sumps (S1 - S6). Approximately 830 gallons of SPH and 119,270 gallons of groundwater were recovered during the third quarter. This represents a decrease in SPH and an increase in groundwater recovery from the volumes recorded in the previous quarter (2<sup>nd</sup> Q 2017). The percent of SPH recovered of the total volume was approximately 0.7%, which is a decrease from the previous quarter of 1.3%. Recovery also continued from the retention ditch, which was previously excavated north of the standpipes (S1-S6). Approximately 59,400 gallons of groundwater/hydrocarbon mixture were recovered during the second quarter. That represents a slight reduction from the previous quarter at 61,100 gallons. An estimated volume of 535 gallons of SPH was recovered from the retention ditch in comparison to 210 gallons in the second quarter. A summary table of the volumes is attached.
- Camera Surveys – Earlier concerns over health and safety issues related to conducting the camera surveys delayed the activity because the original contractor arrived at the site without appropriate cameras or health and safety equipment. Western has since identified a contractor from out-of-state that does have the appropriate equipment and trained personnel to operate on the refinery. A contract has not yet been secured with the preferred vendor.
- Dye Tracer Tests – Western previously conducted dye tracer tests at several locations near the Truck Loading Rack. The earlier test methods and results were reviewed to determine if it is possible to refine the earlier tests by locating additional locations where a tracer may be introduced to the wastewater pipelines/sump. As the sumps are located beneath the truck loading rack that is constantly in service, any additional testing in this immediate area will require extensive coordination. No decision has been made whether to pursue additional testing in this area at this time.

Activities planned for fourth quarter 2017

- Source Control – Western will continue current recovery operations at the standpipe sumps and the retention ditch using a vacuum truck to pump SPH and groundwater from each of the sumps and the downstream ditch.

## Western Refining Southwest, Inc. - Gallup Refinery

### Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)				
9/3/2013*	682	3818	4500				
9/3/2013*	367	4133	4500				
9/4/2013	62	3938	4000				
9/6/2013	62	3938	4000				
9/9/2013	30	4470	4500				
9/11/2013	30	4470	4500				
9/13/2013	62	3938	4000				
9/16/2013	135	5140	5275				
9/18/2013	125	4111	4236				
9/24/2013	58	4742	4800				
9/26/2013	16	4220	4236				
10/2/2013	29	4918	4947				
10/8/2013	30	4569	4599				
10/18/2013	109	5059	5168				
10/28/2013	199	5379	5578				
10/29/2013	63	4049	4112				
11/12/2013	205	5275	5480				
11/14/2013	78	5168	5246				
11/18/2013	60	4539	4599				
11/26/2013	80	5168	5248				
12/3/2013	54	5169	5223				
12/6/2013	57	4890	4947				
12/12/2013	54	5169	5223				
12/17/2013	58	4775	4833				
12/24/2013	57	4890	4947	<b>2013 Totals</b>	<b>hydrocarbon recovered</b>	<b>water pumped</b>	<b>total fluid pumped</b>
1/2/2014	88	4687	4775		<b>2,705</b>	<b>111,045</b>	<b>113,750</b>
1/6/2014	56	4947	5003				
1/7/2014	32	3829	3861				
1/9/2014	32	3448	3480				
1/13/2014	29	4688	4717				
1/16/2014	29	4688	4717				
1/22/2014	29	4918	4947				
1/29/2014	30	4449	4479				
1/31/2014	61	4236	4297				
2/4/2014	61	4236	4297				
2/11/2014	60	4539	4599				
2/18/2014	57	4890	4947				
2/25/2014	57	4890	4947				

## Western Refining Southwest, Inc. - Gallup Refinery

### Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)
2/28/2014	63	3924	3987
3/4/2014	31	4327	4358
3/7/2014	29	4804	4833
3/12/2014	29	4804	4833
3/14/2014	30	4449	4479
3/17/2014	32	3829	3861
3/19/2014	32	3448	3480
3/24/2014	32	3703	3735
3/28/2014	32	3703	3735
4/1/2014	32	3703	3735
4/3/2014	32	3320	3352
4/7/2014	15	4220	4235
4/15/2014	30	4205	4235
4/23/2014	31	4327	4358
5/1/2014	31	4327	4358
5/7/2014	31	4081	4112
5/14/2014	30	4205	4235
5/22/2014	31	4081	4112
5/29/2014	31	3994	4025
6/6/2014	31	4081	4112
6/13/2014	32	3829	3861
6/20/2014	32	3955	3987
7/3/2014	31	4081	4112
7/10/2014	30	4205	4235
7/18/2014	30	4205	4235
7/28/2014	30	4205	4235
8/4/2014	30	4205	4235
8/14/2014	32	3955	3987
8/20/2014	31	4081	4112
8/29/2014	32	3955	3987
9/4/2014	32	3703	3735
9/11/2014	32	3576	3608
9/18/2014	32	3320	3352
9/26/2014	32	3448	3480
9/30/2014	32	3576	3608
10/7/2014	32	3320	3352
10/14/2014	32	3320	3352
10/21/2014	32	3955	3987
10/30/2014	32	3955	3987
11/7/2014	32	3320	3352

## Western Refining Southwest, Inc. - Gallup Refinery

### Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)				
11/12/2014	32	3320	3352				
11/18/2014	32	3064	3096				
12/4/2014	32	3829	3861				
12/9/2014	32	3955	3987				
12/15/2014	31	4081	4112				
12/24/2014	31	4081	4112				
12/30/2014	32	3703	3735	<b>2014 Totals</b>	<b>hydrocarbon recovered</b>	<b>water pumped</b>	<b>total fluid pumped</b>
1/8/2015	31	4081	4112				
1/21/2015	31	4327	4358				
1/29/2015	32	3448	3480				
2/6/2015	32	3448	3480				
2/11/2015	32	3320	3352				
3/5/2015	29	4688	4717				
3/12/2015	31	4081	4112				
3/16/2015	31	4081	4112				
3/25/2015	32	3703	3735				
3/31/2015	32	3955	3987				
4/13/2015	32	3829	3861				
4/20/2015	32	3703	3735				
4/27/2015	16	4096	4112				
4/30/2015	16	4096	4112				
5/11/2015	16	4220	4236				
5/29/2015	16	3971	3987				
6/8/2015	16	4096	4112				
6/12/2015	16	4096	4112				
6/16/2015	16	4220	4236				
6/24/2015	15	4583	4599				
7/2/2015	16	4096	4112				
7/8/2015	16	3971	3987				
7/15/2015	15	4343	4358				
7/22/2015	16	4220	4236				
7/30/2015	16	3845	3861				
8/6/2015	16	4220	4236				
8/12/2015	16	3971	3987				
8/17/2015	16	4220	4236				
8/21/2015	16	3845	3861				
8/26/2015	16	4220	4236				
9/2/2015	15	4464	4479				

## Western Refining Southwest, Inc. - Gallup Refinery

### Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)				
9/11/2015	14	5154	5168				
9/25/2015	15	4464	4479				
10/2/2015	15	4583	4599				
10/8/2015	16	4220	4236				
10/23/2015	16	4817	4833				
10/29/2015	16	4220	4236				
11/11/2015	14	4933	4947				
11/20/2015	24	5554	5578				
11/30/2015	43	4790	4833				
12/10/2015	56	5323	5379				
12/17/2015	56	4891	4947				
12/24/2015	54	5114	5168				
12/31/2015	54	5114	5168	<b>2015 Totals</b>	<b>hydrocarbon recovered</b>	<b>water pumped</b>	<b>total fluid pumped</b>
1/7/2016	56	5323	5379		<b>1,071</b>	<b>188,634</b>	<b>189,707</b>
1/19/2016	51	5429	5480				
1/26/2016	56	5003	5059				
2/11/2016	54	5221	5275				
2/17/2016	56	4891	4947				
2/25/2016	56	5323	5379				
3/4/2016	47	5625	5672				
3/11/2016	49	5529	5578				
3/17/2016	59	4658	4717				
3/24/2016	45	5717	5762				
3/31/2016	49	5529	5578				
4/6/2016	38	5966	6004				
4/15/2016	40	5888	5928				
4/20/2016	56	5323	5379				
4/27/2016	43	5804	5847				
5/5/2016	47	5625	5672				
5/9/2016	60	4419	4479				
5/10/2016	45	5717	5762				
5/17/2016	40	5888	5928				
5/19/2016	51	5429	5480				
5/24/2016	38	5966	6004				
5/25/2016	49	5529	5578				
5/27/2016	43	5804	5847				
6/1/2016	45	5717	5762				
6/3/2016	51	5429	5480				

## Western Refining Southwest, Inc. - Gallup Refinery

### Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)
6/7/2016	35	6039	6074
6/9/2016	47	5625	5672
6/13/2016	40	5888	5928
6/16/2016	38	5966	6004
6/20/2016	40	5888	5928
6/23/2016	49	5529	5578
6/27/2016	47	5625	5672
6/30/2016	60	4419	4479
7/6/2016	232	4768	5000
7/8/2016	109	3891	4000
7/11/2016	232	4768	5000
7/19/2016	300	5300	5600
7/21/2016	109	3891	4000
7/25/2016	232	4768	5000
7/28/2016	109	3891	4000
8/2/2016	232	4768	5000
8/9/2016	300	5300	5600
8/15/2016	232	4768	5000
8/18/2016	109	3891	4000
8/23/2016	232	4768	5000
8/25/2016	109	3891	4000
8/29/2016	232	4768	5000
9/1/2016	109	3891	4000
9/7/2016	232	4768	5000
9/9/2016	109	4187	4296
9/12/2016	109	3891	4000
9/15/2016	109	3891	4000
9/19/2016	232	4768	5000
9/27/2016	300	5300	5600
9/29/2016	109	3891	4000
10/5/2016	280	5180	5460
10/7/2016	280	5180	5460
10/10/2016	280	5180	5460
10/20/2016	109	3891	4000
10/26/2016	50	2450	2500
10/28/2016	109	3891	4000
11/1/2016	109	3891	4000
11/3/2016	109	3891	4000
11/8/2016	109	3891	4000
11/10/2016	109	3891	4000

## Western Refining Southwest, Inc. - Gallup Refinery

### Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)				
11/14/2016	109	3891	4000				
11/23/2016	109	3891	4000				
12/6/2016	109	3891	4000				
12/8/2016	109	3891	4000				
12/13/2016	303	4697	5000				
12/15/2016	109	3891	4000				
12/20/2016	109	3891	4000				
12/27/2016	400	4600	5000				
12/29/2016	109	3891	4000	<b>2016 Totals</b>	<b>hydrocarbon recovered</b>	<b>water pumped</b>	<b>total fluid pumped</b>
					<b>8,668</b>	<b>357,619</b>	<b>366,287</b>
1/10/2017	109	3891	4000				
1/20/2017	167	4333	4500				
2/2/2017	109	3891	4000				
2/6/2017	231	4769	5000				
2/17/2017	231	4769	5000				
2/20/2017	109	3891	4000				
3/1/2017	109	4891	5000				
3/6/2017	167	4833	5000				
3/9/2017	109	3891	4000				
3/14/2017	231	4769	5000				
5/8/2017	303	4697	5000				
5/12/2017	167	3833	4000				
5/15/2017	167	3833	4000				
5/16/2017	10	5590	5600				
5/18/2017	10	3090	3100				
5/23/2017	40	5560	5600				
5/24/2017	232	4768	5000				
5/30/2017	20	5980	6000				
6/1/2017	10	2990	3000				
6/6/2017	100	7900	8000				
6/8/2017	10	5990	6000				
6/13/2017	10	5990	6000				
6/15/2017	50	5950	6000				
6/20/2017	10	5990	6000				
6/22/2017	10	5990	6000				
6/27/2017	20	5980	6000				



**Western Refining Southwest, Inc. - Gallup Refinery  
Stand Pipes Recovery Records**

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)		hydrocarbon recovered	water pumped	total fluid pumped
6/29/2017	10	5990	6000				
7/5/2017	10	2990	3000				
7/7/2017	50	8950	9000				
7/11/2017	10	5990	6000				
7/14/2017	10	5990	6000				
7/17/2017	10	2990	3000				
7/18/2017	20	2980	3000				
7/20/2017	50	8950	9000				
7/26/2017	75	5925	6000				
7/27/2017	50	2950	3000				
8/2/2017	75	5425	5500				
8/4/2017	10	3490	3500				
8/8/2017	25	5475	5500				
8/10/2017	20	3480	3500				
8/16/2017	15	4485	4500				
8/21/2017	50	7950	8000				
8/25/2017	25	2975	3000				
8/29/2017	50	5950	6000				
8/31/2017	20	2980	3000				
9/6/2017	15	5985	6000				
9/8/2017	15	2985	3000				
9/12/2017	25	5975	6000				
9/14/2017	75	3925	4000				
9/19/2017	50	2950	3000				
9/26/2017	50	3750	3800				
9/28/2017	25	3775	3800				
				3rd Qtr 2017	830	119,270	120,100
<b>Project Totals</b>	<b>18,190</b>	<b>1,157,689</b>	<b>1,175,881</b>				

\* two loads were removed on this date

\*\* based on estimates from measurements taken on 10/13/16 and 10/18/16

**Western Refining Southwest, Inc. - Gallup Refinery  
Retention Ditch Recovery Records**

<b>DATE</b>	<b>LOADS</b>	<b>water/oil mixture (gallons)</b>	<b>oil (gallons)</b>
4/1/2016	1	5460	NR
4/27/2016	1	5460	NR
4/28/2016	1	5460	NR
5/5/2016	1	5460	NR
5/9/2016	0.75	4200	NR
5/13/2016	1	5460	NR
5/24/2016	1	5460	NR
5/26/2016	0.5	2730	NR
5/27/2016	1	5460	NR
6/1/2016	1	5460	NR
6/2/2016	1	5460	NR
6/6/2016	1	5460	NR
6/8/2016	1	5460	NR
6/9/2016	0.5	2730	NR
6/14/2016	1	5460	NR
6/16/2016	1	5460	NR
6/23/2016	1	5460	NR
6/29/2016	0.5	2730	NR
7/6/2016	1	5460	NR
7/8/2016	1	5460	NR
7/13/2016	1	5460	NR
7/21/2016	1	5460	NR
7/27/2016	1	5460	NR
8/3/2016	1	5460	NR
8/9/2016	2	10920	NR
8/10/2016	0.5	2730	NR
8/16/2016	1	5460	NR
8/17/2016	1	5460	NR
8/18/2016	0.5	2730	NR
8/23/2016	2	10920	NR
8/24/2016	1	5460	NR
8/26/2016	1	5460	NR
8/30/2016	1	5460	NR
9/1/2016	2	10920	NR
9/8/2016	2	10920	NR
9/14/2016	2	10920	NR
10/6/2016	1	5460	NR
10/7/2016	1	5460	NR
10/10/2016	2	10920	NR
10/20/2016	1	5460	NR
10/24/2016	1	5460	NR

**Western Refining Southwest, Inc. - Gallup Refinery  
Retention Ditch Recovery Records**

DATE	LOADS	water/oil mixture (gallons)	oil (gallons)			
10/26/2016	2	10920	NR			
10/27/2016	1	5460	NR			
10/31/2016	2	10920	NR			
11/8/2016	2	10920	NR			
11/10/2016	3	16380	NR			
11/11/2016	0.77	4200	NR			
11/15/2016	0.5	2730	NR			
11/16/2016	1	5460	NR			
12/6/2016	1	5460	NR			
12/8/2016	1	5460	NR			
12/14/2016	1	5460	NR			
12/15/2016	3	15120	NR	<b>2016 Totals</b>	<b>LOADS</b>	<b>water/oil mixture</b>
					<b>62.52</b>	<b>340,200</b>
2/21/2017	NR	5000	NR			
3/8/2017	NR	10000	NR			
3/10/2017	NR	4000	NR			
3/14/2017	NR	10000	NR			
3/15/2017	NR	4000	NR			
3/16/2017	NR	1250	NR			
3/17/2017	NR	5000	NR			
5/16/2017	1	2000	20			
5/17/2017	3	15000	NR			
5/22/2017	1	5000	NR			
5/23/2017	1	2800	20			
5/24/2017	1	5000	NR			
5/30/2017	1	3500	10			
6/6/2017	1	3100	20			
6/8/2017	2	5800	20			
6/13/2017	1	2900	30			
6/15/2017	1	3000	10			
6/20/2017	1	2000	10			
6/22/2017	1	3000	20			
6/27/2017	2	5500	40			
6/29/2017	1	2500	10			
7/5/2017	2	5600	10			
7/7/2017	1	3000	20			
7/11/2017	1	3000	10			
7/14/2017	1	3000	10			
7/18/2017	1	2500	10			
7/20/2017	1	3000	10			

**Western Refining Southwest, Inc. - Gallup Refinery  
Retention Ditch Recovery Records**

<b>DATE</b>	<b>LOADS</b>	<b>water/oil mixture (gallons)</b>	<b>oil (gallons)</b>				
7/27/2017	2	4500	10				
8/3/2017	2	5000	20				
8/4/2017	1	3000	20				
8/9/2017	1	3000	25				
8/16/2017	1	2000	10				
8/25/2017	1	1500	50				
8/31/2017	1	2000	40				
9/7/2017	2	5200	80				
9/15/2017	2	5500	100				
9/20/2017	1	3800	100				
9/26/2017	1	3800	10	<b>3rd Qtr 2017 Totals</b>	<b>LOADS</b>	<b>water/oil</b>	<b>oil</b>
					<b>22</b>	<b>59400</b>	<b>535</b>
<b>Project Totals</b>	<b>102.5</b>	<b>499,950</b>	<b>745</b>				

Project total for oil only includes data since May 2017