

April 14, 2016

Randolph Bayliss Hydrologist, Districts III and IV New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: Online Submission of 2016 Annual Groundwater Reports

Dear Mr. Bayliss,

LT Environmental (LTE), Inc., on behalf of Williams Four Corners LLC (Williams), is electronically submitting the attached 2016 annual groundwater monitoring reports covering the period from January 1, 2016 to December 31, 2016 for the following sites:

- Davis #1 (3RP-311-0);
- Dogie East Pit (3RP-312-0);
- Florance #40 (3RP-315-0);
- Florance #47X (3RP-317-0);
- Jicarilla Contract #147-6 (3RP-325-0); and
- Pritchard #2A (3RP-339-0).

If you have any questions regarding these reports please contact Brooke Herb with LTE at 970-385-1096 or BHerb@LTEnv.com or Aaron Galer with Williams at 801-584-6746 or Aaron.Galer@Williams.com.

Sincerely,

Aaron Galer

Environmental Specialist IV

Williams Companies

Aaron Daler

cc:

Attachments (6)

2016 ANNUAL GROUNDWATER REPORT

FLORANCE #47X ADMINISTRATIVE/ENVIRONMENTAL ORDER NUMBER 3RP-317-0

APRIL 2017

Prepared for:

WILLIAMS FOUR CORNERS LLC Salt Lake City, Utah



2016 ANNUAL GROUNDWATER REPORT

FLORANCE #47X ADMINISTRATIVE/ENVIRONMENTAL ORDER NUMBER 3RP-317-0

APRIL 2017

Prepared for:

WILLIAMS FOUR CORNERS LLC 295 Chipeta Way Salt Lake City, Utah 84108

Prepared by:

LT ENVIRONMENTAL, INC. 848 East Second Avenue Durango, Colorado 81301 (970) 385-1096



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EXECUTIVE SUMMARY

Groundwater at the Florance #47X (Site), Administrative/Environmental Order Number 3RP-317-0, is impacted by petroleum hydrocarbons due to a release from a former earthen dehydrator pit. LT Environmental, Inc. (LTE) on behalf of Williams Four Corners LLC (Williams) conducted groundwater sampling and monitoring activities for the last three quarters of 2016 at the Site. These activities included measuring depth to groundwater and investigating for the presence of phase-separated hydrocarbons (PSH) in monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5.

Groundwater samples were collected from MW-5 for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX). Monitoring wells MW-1 and MW-4 were not sampled in 2016 as concentrations of BTEX have been compliant with the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards since 2000 and 2003, respectively, and were removed from the sampling program. Monitoring well MW-2 was not sampled in 2016 due to an obstruction in the well preventing recovery of water. Monitoring well MW-3 was not sampled in 2016 due to the presence of PSH.

Depth to groundwater data collected during the April, August, and October 2016 monitoring events indicated groundwater flow direction is to the southeast. Concentrations of benzene exceeded the NMWQCC groundwater standards in the sample collected from monitoring well MW-5 during April 2016. Measurable PSH was observed in monitoring well MW-3 during all three 2016 monitoring events. LTE recovered PSH from monitoring well MW-3 during 2016 using oil absorbent socks and by manual recovery.

Williams will monitor groundwater elevations and the presence of PSH in monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5, quarterly. Williams will manually recover PSH from monitoring well MW-3 and install oil absorbent socks for passive PSH recovery between quarterly site visits. Additionally, Williams will collect annual groundwater samples from monitoring wells MW-2 and MW-5 as well as MW-3 if no free product is detected.



1.0 INTRODUCTION

LT Environmental, Inc. (LTE) has prepared this report on behalf of Williams Four Corners LLC (Williams) detailing annual groundwater monitoring activities completed in 2016 at the Florance #47X (Site), Administrative/Environmental Order Number 3RP-317-0. The scope of work for this project includes monitoring of petroleum hydrocarbon impacts to groundwater including groundwater sampling and recovery of phase-separated hydrocarbons (PSH) resulting from operations of a former earthen dehydrator pit.

1.1 LOCATION

The Site is located at latitude 36.843316 and longitude -108.800667 in Unit G, Section 5, Township 30 North, Range 9 West as depicted on Figure 1. The Site is in Crow Canyon, a tributary of Pump Canyon, in the San Juan Basin in San Juan County, New Mexico.

1.2 HISTORY

In June 1996, approximately 399 cubic yards of petroleum hydrocarbon-impacted soil were excavated from what was believed to be the former earthen dehydrator pit. Field notes indicated the dimensions of the pit were 27 feet long by 21 feet wide by 19 feet deep. A composite soil sample from the pit excavation contained 97 milligrams per kilogram (mg/kg) of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and 277 mg/kg of total petroleum hydrocarbons (TPH)-diesel range organics (DRO). A test hole was drilled in the location of the excavation to a depth of 115 feet below ground surface (bgs); groundwater was encountered at 96.95 feet. A soil sample from this test hole at 56 feet bgs contained 6,318 mg/kg of TPH-gasoline range organics (GRO) and 88.2 mg/kg of TPH-DRO. A groundwater sample from this test hole, which was completed as monitoring well MW-2, contained 18,650 micrograms per liter (µg/L) of BTEX.

Between September 1997 and December 2015, Williams monitored groundwater at the Site. Monitoring wells MW-2, MW-3, and MW-5 contained PSH at some time between 1999 and 2013. Records regarding these activities can be found in previous groundwater reports submitted to the New Mexico Oil Conservation Division (NMOCD).

Laboratory analytical results for groundwater samples collected from monitoring wells MW-1 and MW-4 indicated BTEX concentrations were compliant with the New Mexico Water Quality Control Commission (NMWQCC) standards for more than eight consecutive quarters; therefore, sampling of these wells was discontinued after the March 2013 monitoring event.

On September 12, 2013, LTE collected a sample of PSH from monitoring well MW-3 for paraffins, isoparaffins, aromatics, naphthenes, and olefins (PIANO) analysis to determine the chemical composition of the PSH and identify the potential source at the Site. The PIANO analysis from MW-3 indicated a natural gas condensate source.



2.0 METHODOLOGY

2.1 SCOPE OF WORK

LTE conducted groundwater sampling monitoring activities for the last three quarters of 2016 at the Site. These activities included measuring depth to groundwater and investigating for the presence of PSH in monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5. A groundwater MW-5 April Monitoring sample was collected from in 2016. MW-1 and MW-4 were not sampled in 2016 as concentrations of BTEX have been compliant with the NMWQCC groundwater standards since 2000 and 2003, respectively, and were removed from the monitoring program. Monitoring well MW-2 was not sampled in 2016 due to an obstruction in the well preventing recovery of water. Monitoring well MW-3 was not sampled in 2016 due to the presence of PSH.

2.2 WATER AND PRODUCT LEVEL MEASUREMENTS

Monitoring activities included measuring depth to PSH (where present) and depth to groundwater with a Keck oil/water interface probe. The presence of PSH was investigated using the interface probe. The interface probe was decontaminated with AlconoxTM soap and rinsed with de-ionized water prior to each measurement.

2.3 GROUNDWATER SAMPLING

Prior to sampling groundwater, depth to groundwater and total depth of monitoring wells were measured with a Keck oil/water interface probe. Monitoring wells containing measurable PSH were not sampled. The volume of water in each monitoring well sampled was calculated, and a minimum of three well casing volumes of water was purged from each well using a dedicated polyvinyl chloride (PVC) bailer. As water was removed from the monitoring well, pH, electrical conductivity, and temperature were monitored. Monitoring well MW-5 was purged until these parameters stabilized, indicating the purge water was representative of ambient aquifer conditions, or until the well was purged dry. Stabilization was defined as three consecutive stable readings for each water quality parameter (plus or minus (±) 0.4 units for pH, ±10 percent for electrical conductivity, and ±2 degrees (°) Celsius for temperature). All purge water was contained and disposed of at a designated Williams facility. A copy of the 2016 field notes are presented in Appendix A.

After monitoring well MW-5 was properly purged, a groundwater sample was collected by filling three 40-milliliter (ml) glass vials directly from the bailer. The laboratory-supplied vials were filled and capped with no air inside to prevent degradation of the sample. Samples were labeled with the date and time of collection, monitoring well designation, project name, collector's name, and constituents to be analyzed. Samples were immediately sealed, packed on ice, and transferred to Hall Environmental Analysis Laboratory (HEAL) for analysis. HEAL analyzed the samples for BTEX using United States Environmental Protection Agency Method 8021.



2.4 GROUNDWATER CONTOUR MAPS

The April, August, and October 2016 groundwater elevations in the monitoring wells were determined relative to the top-of-casing elevations measured during the June 2013 survey. Figures 2 through 4 present contoured groundwater elevation maps derived from these data indicating the groundwater flow direction. The contours were inferred based on groundwater elevations obtained and observations of physical characteristics at the Site, such as topography.

2.5 PSH RECOVERY

Oil absorbent socks were used to passively recover PSH in monitoring well MW-3. The oil absorbent socks were removed from the monitoring well at least seven days prior to the monitoring event to allow groundwater to equilibrate. After measuring the PSH and groundwater levels, new oil absorbent socks were installed. LTE estimated the volume of recovered PSH based on percent saturation observed in the socks. Once the oil absorbent socks were removed, LTE manually bailed as much PSH from the monitoring well as possible.

3.0 RESULTS

Depth to groundwater data collected during the April, August, and October 2016 monitoring events are summarized in Table 1. The groundwater flow direction was determined to be to the southeast (Figure 2 through 4).

During the 2016 annual sampling event, laboratory analytical results indicated concentrations of benzene exceeded the NMWQCC groundwater standards in monitoring well MW-5 at 270 μ g/L. Laboratory analytical results for groundwater are summarized in Table 2. Copies of the laboratory analytical results are presented in Appendix B.

Monitoring well MW-2 was not sampled during 2016 due to an obstruction in the well casing preventing the recovery of water. Groundwater was not sampled from MW-3 during 2016 due to the presence of PSH. Monitoring well MW-3 contained 1.65 feet of measurable PSH on April 21, 2016; 1.55 feet of measurable PSH on July, 25, 2016; and 1.51 feet of measurable PSH on October 10, 2016. A total of approximately 536 ounces or 4.19 gallons of PSH were removed from MW-3 during 2016 through passive product recovery socks and manual bailing.

4.0 CONCLUSIONS

In 2016, concentrations of benzene exceeding the NMWQCC standards were detected in the groundwater sample from monitoring well MW-5 located within and downgradient of the source area. Monitoring well MW-2 has been damaged, restricting data gathering and remediation options in monitoring well MW-2. PSH was measured in monitoring well MW-3 downgradient of the original source area.

5.0 MONITORING PLAN

Williams will monitor groundwater elevations and the presence of PSH in monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5, quarterly. Williams will manually recover PSH from monitoring well MW-3 and install oil absorbent socks for passive PSH recovery between

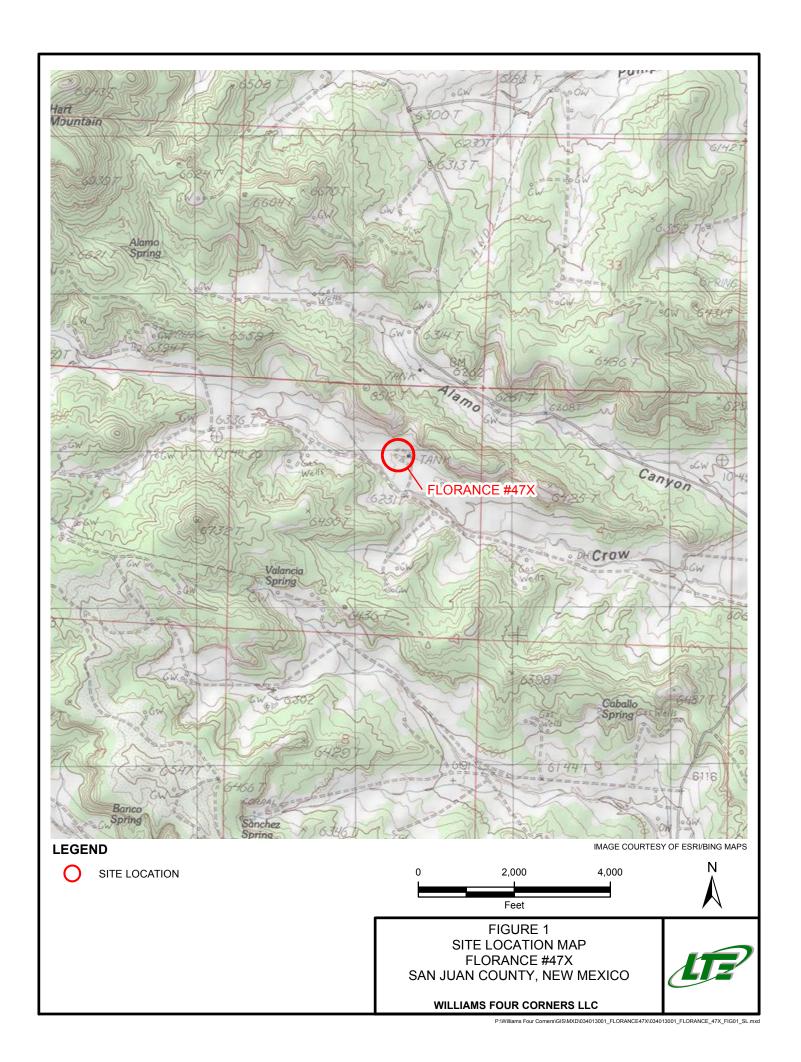


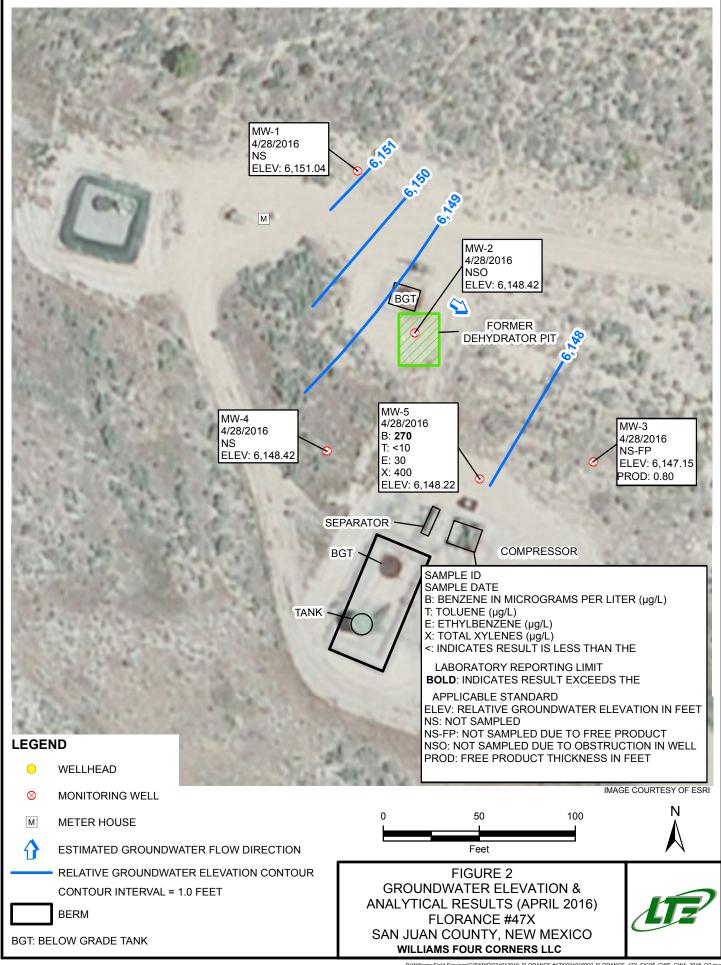
quarterly site visits. Additionally, Williams will collect annual groundwater samples from monitoring wells MW-2 and MW-5, if possible.

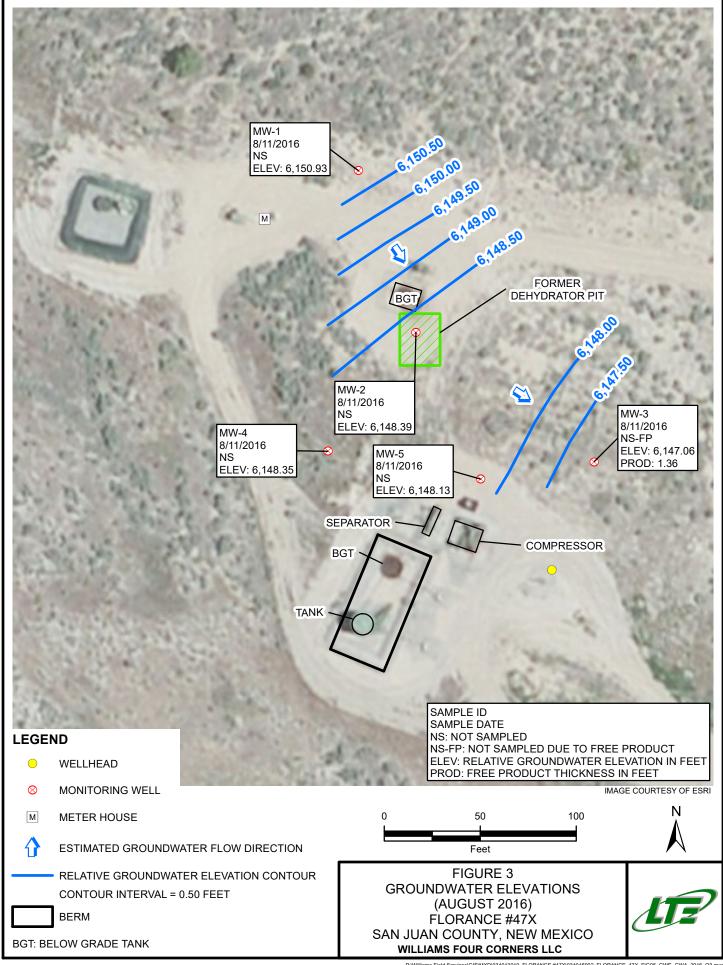


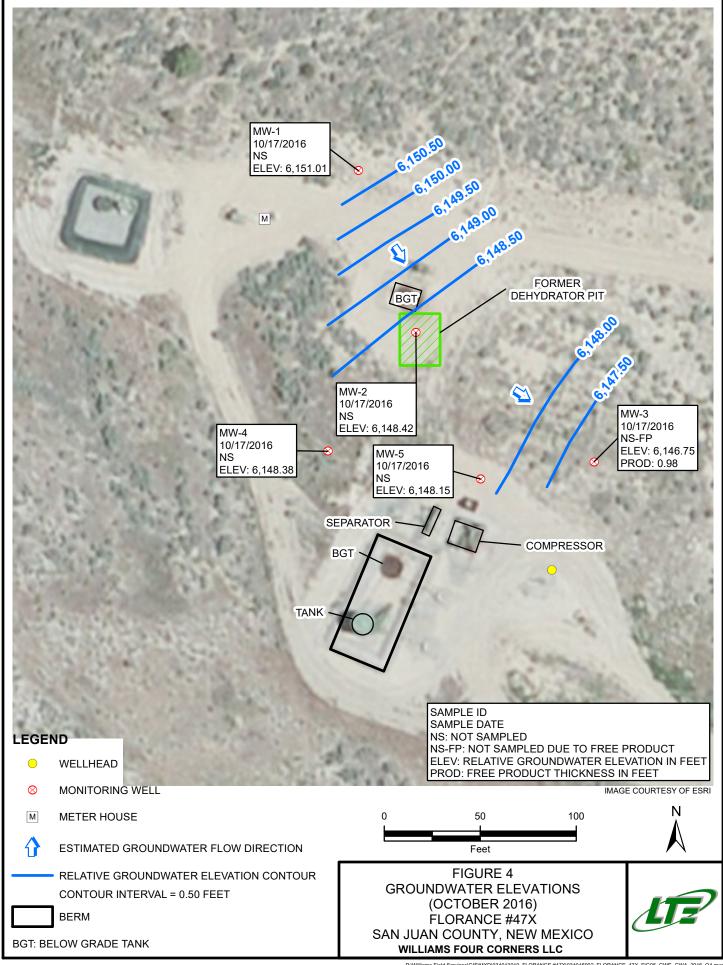
FIGURES











TABLES



TABLE 1 GROUNDWATER ELEVATIONS SUMMARY

Well Name	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-1	4/2/2012	6,229.61	UNK	UNK	UNK	UNK
MW-1	6/13/2012	6,229.61	UNK	UNK	UNK	UNK
MW-1	10/2/2012	6,229.61	UNK	UNK	UNK	UNK
MW-1	12/6/2012	6,229.61	UNK	UNK	UNK	UNK
MW-1	3/1/2013	6,229.61	99.52	NP	NP	6,130.09
MW-1	6/24/2013**	6,250.21	99.41	NP	NP	6,150.80
MW-1	9/12/2013	6,250.21	98.90	NP	NP	6,151.31
MW-1	12/4/2013	6,250.21	98.79	NP	NP	6,151.42
MW-1	3/19/2014	6,250.21	99.08	NP	NP	6,151.13
MW-1	6/13/2014	6,250.21	99.02	NP	NP	6,151.19
MW-1	9/11/2014	6,250.21	99.01	NP	NP	6,151.20
MW-1	12/4/2014	6,250.21	99.18	NP	NP	6,151.03
MW-1	3/17/2015	6,250.21	99.14	NP	NP	6,151.07
MW-1	4/28/2016	6,250.21	99.17	NP	NP	6,151.04
MW-1	8/11/2016	6,250.21	99.28	NP	NP	6,150.93
MW-1	10/17/2016	6,250.21	99.20	NP	NP	6,151.01
IVI VV - I	10/17/2010	0,230.21	99.20	INF	INF	0,131.01
MW-2	4/2/2012	6,226.30	UNK	UNK	UNK	UNK
MW-2	6/13/2012	6,226.30	UNK	UNK	UNK	UNK
MW-2	10/2/2012	6,226.30	UNK	UNK	UNK	UNK
MW-2	12/6/2012	6,226.30	UNK	UNK	UNK	UNK
MW-2	3/1/2013	6,226.30	98.47	NP	NP	6,127.83
MW-2	6/24/2013**	6,247.15	98.45	NP	NP	6,148.70
MW-2	9/12/2013	6,247.15	98.60	NP	NP	6,148.55
MW-2	12/4/2013	6,247.15	98.41	NP	NP	6,148.74
MW-2	3/19/2014	6,247.15	98.54	NP	NP	6,148.61
MW-2	6/13/2014	6,247.15	98.53	NP	NP	6,148.62
MW-2	9/11/2014	6,247.15	98.60	NP	NP	6,148.55
MW-2	12/4/2014	6,247.15	98.56	NP	NP	6,148.59
MW-2	3/17/2015	6,247.15	98.63	NP	NP	6,148.52
MW-2	4/28/2016	6,247.15	98.73	NP	NP	6,148.42
MW-2	8/11/2016	6,247.15	98.76	NP	NP	6,148.39
MW-2	10/17/2016	6,247.15	98.73	NP	NP	6,148.42
						1
MW-3	4/2/2012	6,217.53	UNK	UNK	UNK	UNK
MW-3	6/13/2012	6,217.53	UNK	UNK	UNK	UNK
MW-3	10/2/2012	6,217.53	UNK	UNK	UNK	UNK
MW-3	12/6/2012	6,217.53	UNK	UNK	UNK	UNK
MW-3*	3/1/2013	6,217.53	92.48	91.51	0.97	6,125.83
MW-3*	6/24/2013**	6,238.51	91.71	90.86	0.85	6,147.48
MW-3	9/12/2013	6,238.51	91.69	90.89	0.80	6,147.46
MW-3	12/4/2013	6,238.51	91.23	90.83	0.40	6,147.60
MW-3	3/19/2014	6,238.51	91.59	91.03	0.56	6,147.37
MW-3	6/13/2014	6,238.51	91.38	91.08	0.30	6,147.37
MW-3	9/11/2014	6,238.51	91.47	91.20	0.27	6,147.26
MW-3	12/4/2014	6,238.51	91.15	91.15†	< 0.01	6,147.36
MW-3	3/17/2015	6,238.51	91.53	91.22	0.31	6,147.23
MW-3	4/28/2016	6,238.51	92.00	91.20	0.80	6,147.15
MW-3	8/11/2016	6,238.51	92.54	91.18	1.36	6,147.06
MW-3	10/17/2016	6,238.51	92.54	91.56	0.98	6,146.75



TABLE 1 GROUNDWATER ELEVATIONS SUMMARY

FLORANCE #47X SAN JUAN COUNTY, NEW MEXICO WILLIAMS FOUR CORNERS LLC

Well Name	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-4	4/2/2012	6,219.93	UNK	UNK	UNK	UNK
MW-4	6/13/2012	6,219.93	UNK	UNK	UNK	UNK
MW-4	10/2/2012	6,219.93	UNK	UNK	UNK	UNK
MW-4	12/6/2012	6,219.93	UNK	UNK	UNK	UNK
MW-4	3/1/2013	6,219.93	92.02	NP	NP	6,127.91
MW-4	6/24/2013**	6,240.67	91.98	NP	NP	6,148.69
MW-4	9/12/2013	6,240.67	92.00	NP	NP	6,148.67
MW-4	12/4/2013	6,240.67	91.96	NP	NP	6,148.71
MW-4	3/19/2014	6,240.67	92.09	NP	NP	6,148.58
MW-4	6/13/2014	6,240.67	92.06	NP	NP	6,148.61
MW-4	9/11/2014	6,240.67	92.13	NP	NP	6,148.54
MW-4	12/4/2014	6,240.67	92.10	NP	NP	6,148.57
MW-4	3/17/2015	6,240.67	92.17	NP	NP	6,148.50
MW-4	4/28/2016	6,240.67	92.25	NP	NP	6,148.42
MW-4	8/11/2016	6,240.67	92.32	NP	NP	6,148.35
MW-4	10/17/2016	6,240.67	92.29	NP	NP	6,148.38
MW-5	4/2/2012	6,216.97	UNK	UNK	UNK	UNK
MW-5	6/13/2012	6,216.97	UNK	UNK	UNK	UNK
MW-5	10/2/2012	6,216.97	UNK	UNK	UNK	UNK
MW-5	12/6/2012	6,216.97	UNK	UNK	UNK	UNK
MW-5	3/1/2013	6,216.97	90.48	90.46	0.02	6,126.51
MW-5	6/24/2013**	6,238.33	89.78	NP	NP	6,148.55
MW-5	9/12/2013	6,238.33	89.98	NP	NP	6,148.35
MW-5	12/4/2013	6,238.33	89.86	NP	NP	6,148.47
MW-5	3/19/2014	6,238.33	89.91	NP	NP	6,148.42
MW-5	6/13/2014	6,238.33	89.95	NP	NP	6,148.38
MW-5	9/11/2014	6,238.33	90.02	NP	NP	6,148.31
MW-5	12/4/2014	6,238.33	90.02	NP	NP	6,148.31
MW-5	3/17/2015	6,238.33	89.98	NP	NP	6,148.35
MW-5	4/28/2016	6,238.33	90.11	NP	NP	6,148.22
MW-5	8/11/2016	6,238.33	90.20	NP	NP	6,148.13
MW-5	10/17/2016	6,238.33	90.18	NP	NP	6,148.15

Notes:

- < less than laboratory detection limit
- * Due to presence of product recovery device, this is not a static water level

†Oil-water interface probe did not detect phase separated hydrocarbons. LTE visually observed phase separated hydrocarbons using a bailer. Groundwater elevation calculation in wells with product: (Top of Casing Elevation - Depth to Water) + (Product Thickness * 0.8)

AMSL - above mean sea level

BTOC - below top of casing

NP - no free phase hydrocarbons are present the well

UNK - data is not known



^{**} Top of casing elevation was resurveyed on 6/20/13

Well Name Sample Date		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	
NMWQCC Sta	ındard (μg/L)	10	750	750	620	
MW-1	1/8/1997	3,380	7,150	917	7,200	
MW-1	7/13/1997	367	241	35	191	
MW-1	10/1/1997	171	54	27	65	
MW-1	1/6/1998	147	70	20	73.6	
MW-1	3/9/1998	140	1.4	17	36	
MW-1	6/11/1998	94	19	11	16.3	
MW-1	8/12/1998	49	4.7	8.8	5.7	
MW-1	12/15/1998	46	11	5.8	4.7	
MW-1	2/9/1999	33	6.6	5.6	4.7	
MW-1	4/21/1999	40	15	6.4	10.4	
MW-1	7/28/1999	34	7.8	3	3.0	
MW-1	11/3/1933	2.9	<0.5	<0.5	<1.5	
MW-1	3/23/2000	10	1.1	<0.5	<1.5	
MW-1	6/14/2000	4.1	1.4	0.6	<1.5	
MW-1	11/17/2000	4.64	<1.0	<1.0	<1.0	
MW-1	1/31/2001	3.67	1.44	<1.0	<1.0	
MW-1	4/30/2001	5.44	1.90	<1.0	1.78	
MW-1	10/10/2001	1.1	<2.0	<2.0	<2.0	
MW-1	12/2/2003	<2.0	<2.0	<2.0	<5.0	
MW-1	9/20/2004	3.4	<2.0	<2.0	<5.0	
MW-1	12/3/2004	<2.0	<2.0	<2.0	<5.0	
MW-1	3/10/2005	<2.0	<2.0	<2.0	<5.0	
MW-1	6/18/2005	<2.0	<2.0	<2.0	<5.0	
MW-1	7/13/2006	2.2	<1.0	<1.0	<3.0	
MW-1	9/21/2006	4.9	<1.0	<1.0	<3.0	
MW-1	3/29/2010	<1.0	<1.0	<1.0	<3.0	
MW-1	6/18/2010	<1.0	<1.0	<1.0	<3.0	
MW-1	9/10/2010	1.2	<1.0	<1.0	<3.0	
MW-1	12/4/2010	<1.0	<1.0	<1.0	<3.0	
MW-1	3/2/2011	<1.0	<1.0	<1.0	<3.0	
MW-1	6/14/2011	3.6	<1.0	<1.0	<3.0	
MW-1	9/12/2011	<1.0	<1.0	<1.0	<3.0	
MW-1	1/3/2012	<1.0	<1.0	<1.0	<3.0	
MW-1	4/2/2012	<1.0	<1.0	<1.0	<3.0	
MW-1	6/13/2012	<1.0	<1.0	<1.0	<3.0	
MW-1	10/2/2012	1.1	<1.0	<1.0	<3.0	
MW-1	12/6/2012	<1.0	<1.0	<1.0	<3.0	
MW-1	3/1/2013	<1.0	<1.0	<1.0	<2.0	
141 44 - 1	5/1/2015	`1.0	`1.0	`1.0	\2.0	
MW-2	8/12/1998	9,800	14,000	920	9,200	
MW-2			17,000	870	8,700	
MW-2	2/9/1999	11,000	16,000	720	7,300	
MW-2			20,000	850	8,500	
MW-2	7/28/1999	14,000 11,000	15,000	740	6,800	
1 V 1 V V = Z	1140/1222	11,000	13,000	/ T U	0,000	



Well Name Sample Date		Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	
NMWQCC Sta	ındard (μg/L)	10	750	750	620	
MW-2	3/23/2000	12,000	15,000	810	8,200	
MW-2	6/14/2000	6,400	7,000	570	5,800	
MW-2	11/17/2000	5,980	3,240	600	4,780	
MW-2	1/31/2001	6,300	2,790	458	5,490	
MW-2	4/30/2001	7,160	2,200	404	7,060	
MW-2	10/10/2001	4,500	1,000	390	3,800	
MW-2	12/2/2003	11,000	<100	540	6,400	
MW-2	9/20/2004	11,000	<200	600	5,800	
MW-2	12/3/2004	11,000	<200	630	6,300	
MW-2	3/10/2005	10,000	38	490	5,700	
MW-2	6/18/2005	9,700	<100	640	6,000	
MW-2	9/16/2005	8,900	31	370	4,800	
MW-2	11/30/2005	<2.0	2.9	<2.0	12.2	
MW-2	7/18/2006	16,900	<10.0	753	4,370	
MW-2	3/29/2010	9,460	67	521	6,210	
MW-2	6/18/2010	3,270	<1.0	260	3,530	
MW-2	12/4/2010	1,470	26.3	599	2,720	
MW-2	3/2/2011	2,530	1.4	764	3,700	
MW-2	6/14/2011	8,500	<20.0	537	4,490	
MW-2	1/3/2012	9,400	<50.0	710	6,340	
MW-2	4/2/2012	10,000	710	<100	6,390	
MW-2	6/13/2012	11,200	716	<50.0	6,790	
MW-2	10/2/2012	10,200	765	<100	7,260	
MW-2	12/6/2012	8,280	722	<50.0	5,610	
MW-2	3/4/2013	8,600	<10	<10	6,500	
MW-2	6/24/2013	6,300	<10	600	5,800	
MW-2	9/12/2013	NSO	NSO	NSO	NSO	
MW-2	12/4/2013	39	72	<5.0	150	
MW-2	3/19/2014	9,700	<10	760	7,000	
MW-2	6/13/2014	8,600	<10	290	5,800	
MW-2	9/11/2014	9,700	<10	490	7,200	
MW-2	12/8/2014	9,400	<10	360	6,900	
MW-2	3/17/2015	5,000	<20	340	3,000	
MW-2	4/28/2016	NSO	NSO	NSO	NSO	
	· · · · · · · · · · · · · · · · · · ·					
MW-3	4/2/2012	NS	NS	NS	NS	
MW-3	6/13/2012	NS	NS	NS	NS	
MW-3	10/2/2012	NS	NS	NS	NS	
MW-3	12/6/2012	NS	NS	NS	NS	
MW-3	3/1/2013	NS-FP	NS-FP	NS-FP	NS-FP	
MW-3	6/24/2013	NS-FP	NS-FP	NS-FP	NS-FP	
MW-3	9/12/2013	NS-FP	NS-FP	NS-FP	NS-FP	
MW-3	12/4/2013	NS-FP	NS-FP	NS-FP	NS-FP	
MW-3	3/19/2014	NS-FP	NS-FP	NS-FP	NS-FP	
MW-3	6/13/2014	NS-FP	NS-FP	NS-FP	NS-FP	



Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	
NMWQCC Sta	ındard (μg/L)	10	750	750	620	
MW-3	9/11/2014	NS-FP	NS-FP	NS-FP	NS-FP	
MW-3	12/4/2014	NS-FP	NS-FP	NS-FP	NS-FP	
MW-3	3/17/2015	NS-FP	NS-FP	NS-FP	NS-FP	
MW-3	4/28/2016	NS-FP	NS-FP	NS-FP	NS-FP	
MW-4	12/15/1998	44	11	5.8	4.8	
MW-4	2/9/1999	11,000	16,000	730	7,300	
MW-4	4/21/1999	68	25	9.3	13	
MW-4	7/2/1999	11,000	14,000	700	6,700	
MW-4	3/23/2000	11,000	13,000	770	7,800	
MW-4	6/14/2000	28	42	7	135	
MW-4	11/17/2000	59.9	104	2.94	98.3	
MW-4	1/31/2001	30.3	81.0	5.20	156	
MW-4	4/30/2001	36.1	56.1	1.32	73	
MW-4	10/10/2001	24	28	<2.0	47	
MW-4	12/2/2003	2.3	2.7	<2.0	6.5	
MW-4	9/20/2004	3.6	3.2	<2.0	9.8	
MW-4	12/3/2004	2.5	2.3	<2.0	8	
MW-4	3/10/2005	3.0	3.5	<2.0	11	
MW-4	6/18/2005	<2.0	3	<2.0	8.6	
MW-4	9/16/2005	<2.0	2.3	<2.0	9.4	
MW-4	11/30/2005	<2.0	<2.0	<2.0	10.4	
MW-4	7/13/2006	2.9	<1.0	1.0	9.9	
MW-4	9/21/2006	1.2	<1.0	<1.0	9.6	
MW-4	3/29/2010	1.3	<1.0	<1.0	8.7	
MW-4	6/18/2010	<1.0	<1.0	<1.0	6.8	
MW-4	9/10/2010	<1.0	<1.0	<1.0	3.9	
MW-4	12/4/2010	<1.0	<1.0	<1.0	5.6	
MW-4	3/2/2011	<1.0	<1.0	<1.0	3	
MW-4	6/14/2011	<1.0	<1.0	<1.0	6	
MW-4	9/12/2011	<1.0	<1.0	<1.0	4.7	
MW-4	1/3/2012	<1.0	<1.0	<1.0	5.4	
MW-4	4/2/2012	<1.0	<1.0	<1.0	6.1	
MW-4	6/13/2012	<1.0	<1.0	<1.0	3.7	
MW-4	10/2/2012	<1.0	<1.0	<1.0	4.5	
MW-4	12/6/2012	<1.0	<1.0	<1.0	6	
MW-4	3/1/2013	<1.0	<1.0	<1.0	<2.0	
MW-5	6/14/2000	1,100	710	100	1,100	
MW-5	6/14/2000	890	570	80	900	
MW-5	11/17/2000	161	110	8.09	60.8	
MW-5	4/30/2001	15.7	21.6	2.01	17.9	
MW-5	10/10/2001	380	120	19	220	
MW-5	12/2/2003	41	7.9	3.1	10	
MW-5	9/20/2004	17	3.7	<2.0	9.9	



FLORANCE #47X SAN JUAN COUNTY, NEW MEXICO WILLIAMS FOUR CORNERS LLC

Well Name	Well Name Sample Date		Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)
NMWQCC Sta	ndard (µg/L)	10	750	750	620
MW-5	12/9/2004	13	3.3	<2.0	14
MW-5	3/10/2005	5.5	<2.0	<2.0	6.3
MW-5	7/13/2006	920	74	34.7	1,980
MW-5	9/21/2006	135	19.2	17.0	409
MW-5	4/2/2012	NS	NS	NS	NS
MW-5	6/13/2012	NS	NS	NS	NS
MW-5	10/2/2012	NS	NS	NS	NS
MW-5	12/6/2012	NS	NS	NS	NS
MW-5	3/1/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	6/24/2013	930	< 50	98	1,100
MW-5	9/12/2013	2,400	40	250	3,800
MW-5	12/4/2013	410	46	51	1,000
MW-5	3/19/2014	920	3.1	100	660
MW-5	6/13/2014	4,000	<20	480	1,700
MW-5	9/11/2014	3,000	33	370	2,800
MW-5	12/4/2014	3,000	14	390	2,900
MW-5	3/17/2015	570	<10	52	660
MW-5	4/28/2016	270	<10	30	400

Notes:

Bold - indicates sample exceeds NMWQCC standard

< - indicates result is less than laboratory reporting detection limit

μg/L - micrograms per liter

NMWQCC - New Mexico Water Quality Control Commission

NS - not sampled

NSC - not sampled due to eight quarters below NMWQCC standards

NS -FP - not sampled due to the presence of free phase hydrocarbons in the well

NSO - not sampled due to obstruction



APPENDIX A 2016 FIELD NOTES



Location Florere 47x Date 4-21-16 Project / Client JA, 79 1030-5 JA onsite lock was broke 1045 & removed sock from MW-3 yellow on top block on bottom, 100% sotulated WL: 42.97 DTP: 91.32 bailed 0.75 gallons of product installed rear lack 1145 - JA Afste al adus 4-21-201

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	Florence	= 47x	Water Sa	mple Coll	ection Form				
Sample Loca		Mw-2	,		Client	Williams Field Sovice			
Sample Date		4-20	2016	ı	Project Name	Florance 4.4X			
Sample Tim		11	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	Project #		034016002			
•	· ·	Mw2-	<u>م</u>		Sampler	34			
Sample ID					·				
Analyses		RIFA	wher	Laboratory					
Matrix	al Than c	Gourdinater		Ship	ping Method	drop off			
Turn Around	g IIme	Shandourd			Other QA/QC	NA			
Trip Blank		yes 98,	122	•	TD of Well	101.81			
Depth to W	ater			Døn	th to Product	NA			
Time		12:4.	77	TD.	ام	1.5galloss			
Vol. of H2O	to purge	-10	98.73	TP 101.	31 for 2" well o	or 0.6524 for 4" well) * 3 well vols			
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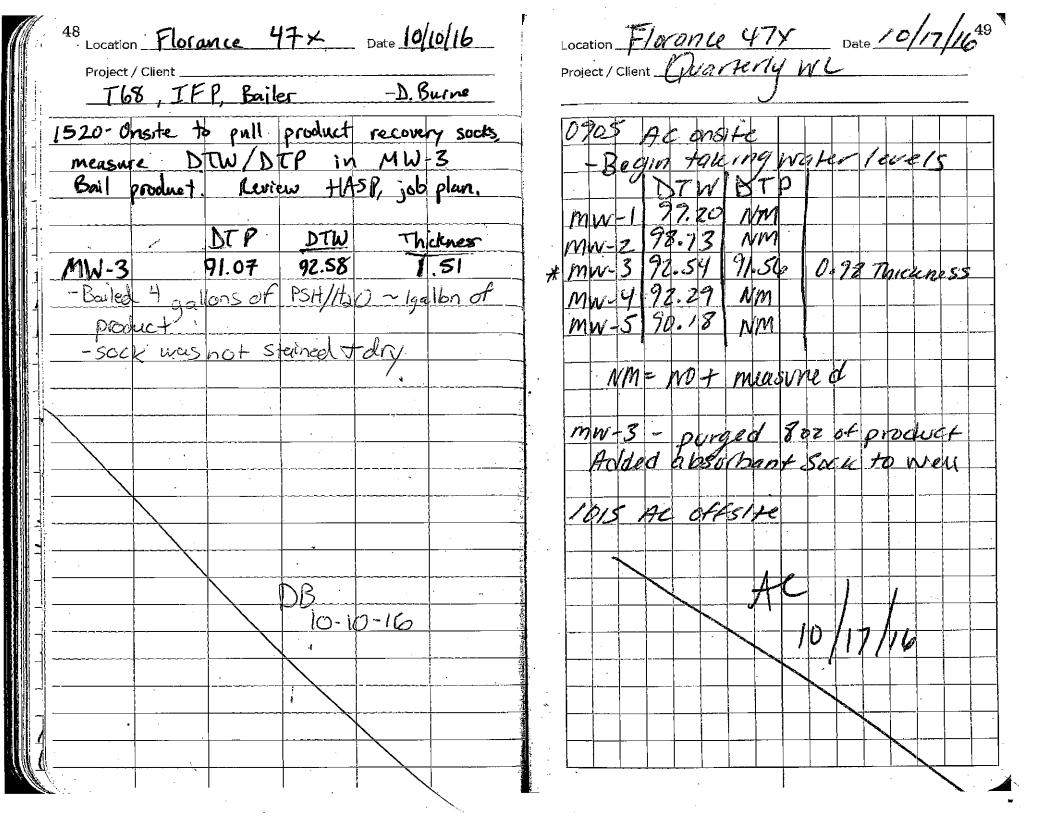
Water Sample Collection Form										
		M.W-5			Client	Williams Field Services				
Sample Loca			-2016	P	roject Name	Florance 47x				
Sample Date				•	Project # C	134016002				
Sample Time	e	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	30	٠	Sampler	Josh Adams				
Sample ID		MW5-0	4	a ^{ri}	,					
Analyses		- PIFM	محط مرا		Laboratory	Hall				
Matrix			duater dead	Ship	ping Method_	dop off				
Turn Around	d Time	Standar a		Other QA/QC		NA				
Trip Blank	_	· yes			TD of Well	99.79				
Depth to Wa	ater	-90·11	E 115	Dept	th to Product	NA				
Time		- T-(-)	PTW 90.	7P_	α	gallors 4.7				
Vol. of H2O	to purge	//- minulate	of water colu	mn * 0.163	1 for 2" well o	r 0.6524 for 4" well) * 3 well vols				
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Signatur	e: /////	1 Clean								

Location Trovance 47x Date 7/25/16 39 Project / Client _ Sunny/Hot/JSA/HASP/TOO 1447 AC onsite -Removed Socie From new-3 yellow of brown, 10090 Saturated WL: 92.90 DTP: 91.35 Barred + 862 of product 1600 AC 044514

ocation Florance 47x Date 7-28-16 1000 -> JA orsite, review SA, HSAP DTP= 91.16 DTW= 92.63 Moduct Thickness=1.47 Develt Backgroot product - reinstalled PRS 045 JA offsito

Location Florance 47x Date 8/11/16

Project/Client Williams Field Services MAW, T59, IFP 1208, Onsite to gauge water levels, review SSA/MASP Well DTW PIP MW-1 99.28 ND DTW (3) MW-2 48.76 $\mathbb{N}^{\mathbb{N}}$ MW-3 9118 9118 92,54 MW-4 92.32 ND MW-5 40.20 ND MW-3 removed ~ 1040z/0.815 gal of dark brown product 1306 Offsite, Installed PRC sock in MW-3



APPENDIX B LABORATORY ANALYTICAL REPORT





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 04, 2016

Brooke Herb LT Environmental 10 42nd St E #1301 Williston, ND 58801

TEL: (701) 609-5436

FAX

RE: Florance #47x OrderNo.: 1604C79

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/29/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **1604C79**

Date Reported: 5/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LT Environmental Client Sample ID: MW5-01

 Project:
 Florance #47x
 Collection Date: 4/28/2016 3:30:00 PM

 Lab ID:
 1604C79-001
 Matrix: AQUEOUS
 Received Date: 4/29/2016 7:00:00 AM

Analyses	Result PQL Qual		al Units	DF	Date Analyzed		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	270	10	μg/L	10	5/2/2016 11:41:08 AM		
Toluene	ND	10	μg/L	10	5/2/2016 11:41:08 AM		
Ethylbenzene	30	10	μg/L	10	5/2/2016 11:41:08 AM		
Xylenes, Total	400	20	μg/L	10	5/2/2016 11:41:08 AM		
Surr: 4-Bromofluorobenzene	117	87.9-146	%Rec	10	5/2/2016 11:41:08 AM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order **1604C79**Date Reported: **5/4/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LT Environmental Client Sample ID: Trip Blank

Project: Florance #47x **Collection Date:**

Lab ID: 1604C79-002 **Matrix:** TRIP BLANK **Received Date:** 4/29/2016 7:00:00 AM

Analyses	Result PQL Qual Uni		al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	μg/L	1	5/2/2016 4:19:23 PM
Toluene	ND	1.0	μg/L	1	5/2/2016 4:19:23 PM
Ethylbenzene	ND	1.0	μg/L	1	5/2/2016 4:19:23 PM
Xylenes, Total	ND	2.0	μg/L	1	5/2/2016 4:19:23 PM
Surr: 4-Bromofluorobenzene	107	87.9-146	%Rec	1	5/2/2016 4:19:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1604C79**

04-May-16

Client: LT Environmental
Project: Florance #47x

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBW** Batch ID: A33934 RunNo: 33934 Prep Date: Analysis Date: 5/2/2016 SeqNo: 1045478 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 ND Ethylbenzene 1.0 Xylenes, Total ND 2.0 Surr: 4-Bromofluorobenzene 22 20.00 109 87.9 146

Sample ID 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSW** Batch ID: A33934 RunNo: 33934 Prep Date: Analysis Date: 5/2/2016 SeqNo: 1045479 Units: µg/L Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual 19 1.0 20.00 O 94.3 80 120 Benzene Toluene 20 1.0 20.00 0 98.8 80 120 Ethylbenzene 20 20.00 0 99.2 80 120 1.0 Xylenes, Total 60 2.0 60.00 0 101 80 120 24 Surr: 4-Bromofluorobenzene 20.00 119 87.9 146

Sample ID 1604C79-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles RunNo: 33934 Client ID: MW5-01 Batch ID: A33934 Analysis Date: 5/2/2016 SeaNo: 1045482 Units: µg/L Prep Date: Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 510 10 200.0 270.0 119 78 119 Toluene 200 10 200.0 99.8 80 120 250 10 200.0 29.92 108 80 120 Ethylbenzene Xylenes, Total 1100 20 600.0 404.2 113 75.3 120 Surr: 4-Bromofluorobenzene 250 200.0 123 87.9 146

Sample ID 1604C79-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Batch ID: A33934 Client ID: RunNo: 33934 MW5-01 Prep Date: Analysis Date: 5/2/2016 SeqNo: 1045483 Units: µg/L SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value LowLimit HighLimit Qual 500 10 200.0 270.0 115 78 119 1.62 20 Benzene Toluene 200 10 200.0 0 99.5 80 120 0.351 20 Ethylbenzene 240 10 200.0 29.92 106 80 120 1.79 20 Xylenes, Total 1100 20 600.0 404.2 112 75.3 120 0.660 20 Surr: 4-Bromofluorobenzene 250 200.0 125 87.9 146 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

LTE ENVIRONMENTAL Work Order Number: 1604C79 Client Name: RoptNo: 1 Received by/date: Logged By: Lindsay Mangin 4/29/2016 7:00:00 AM **Lindsay Mangin** 4/29/2016 9:15:12 AM Completed By: 04/29/16 Reviewed By: Chain of Custody > No [...] 1. Custody seals intact on sample bottles? Yes . Not Present No 🗔 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Properties 1985 Log In 4. Was an attempt made to cool the samples? No 🗔 NA 🗔 No 🗌 NA [_] 5. Were all samples received at a temperature of >0° C to 6.0°C No 🛄 Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? No 8. Are samples (except VOA and ONG) properly preserved? NA [] 9. Was preservative added to bottles? Yes No No VOA Vials ... 10.VOA vials have zero headspace? No 🗔 11. Were any sample containers received broken? No 🗷 # of preserved bottles checked No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 13. Are matrices correctly identified on Chain of Custody? No ... 14. Is it clear what analyses were requested? No ... Checked by: 15. Were all holding times able to be met? No [.] (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes 🗌 No 🗔 NA 🐼 Person Notified: Date: By Whom: Via: [] eMail [] Phone [] Fax Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No | Seal Date Signed By Good Yes

Chain-of-Custody Record	urn-Around ime: 	HALL ENVIRONMENTAL
ient: LT Envi, Connental	Standard □ Rush	ANALYSIS LABORATORY
	Project Name:	www.hallenvironmental.com
ailing Address: 848 & 2nd Auc	Florance # 47x	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
10ne #: 970385 - 1096	034018603	Analysis Request
nail or Fax#: Brethe Itony. Com	Project Manager:	O4)
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Standard Level 4 (Full Validation)	Some Some Source	DR(C)))))))))))))))))))
NELAP 🗆 Other	On Ice:	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
EDD (Type)	Temperature:	(CE 41
		MTE AO AO A A A A A A A A A A A A A A A A
Date Time Matrix Sample Request ID	Container Preservative ICOEN NPC	BTEX + N BTEX + N TPH 8019 TPH (Met BOB (Wet BOB
8-16 1530 GW MWS-01	100/3 HC1/col - 001	X
18-16 NA W Trip Blank	VOO/2 HCC/6001 - 002	X
-		
16: Time: Relinguished by: 16 16 09 (MWW)	Repaired by: Date Time	Remarks:
Refiguished by:	1 -	
12 IL 18TO 11 JULY TO WOULD	V 45- 04/29/16 0400	
	ries This serves	s possibility. Any sub-contracted data will be clearly potated on the analytical report