



P.O. Box 3483, MD 48-6
Tulsa, OK 74101

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,

A handwritten signature in black ink that reads "Aaron Galer". The signature is written in a cursive, flowing style.

Aaron Galer
Environmental Specialist IV
Williams Companies

cc:

Attachments (6)

2016 ANNUAL GROUNDWATER REPORT

DAVIS #1

ADMINISTRATIVE/ENVIRONMENTAL

ORDER NUMBER 3RP-311-0

APRIL 2017

Prepared for:

**WILLIAMS FOUR CORNERS LLC
Salt Lake City, Utah**



2016 ANNUAL GROUNDWATER REPORT

DAVIS #1 ADMINISTRATIVE/ENVIRONMENTAL ORDER NUMBER 3RP-311-0

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 Davis #1 facility (Site), Administrative/Environmental Order Number 3RP-311-0, is impacted by petroleum hydrocarbons due to a release from a former earthen dehydrator pit operated by the Gas Company of New Mexico (GCNM). Impacted soil was excavated in 1998 and seven monitoring wells were installed in 1999 to assess groundwater quality. Williams Four Corners LLC (Williams) purchased the GCNM facility from Public Service Company of New Mexico (PNM) in 2000 and assumed environmental liability for the Site. Since that time, Williams has monitored groundwater quality and conducted free-product removal. In 2016, Williams retained LT Environmental, Inc. (LTE) to complete annual sampling requirements. Groundwater elevations were measured semi-annually (June 2016 and December 2016).

Of the original seven monitoring wells, six remained in 2016. Monitoring well MW-2 is located in the original source area, but contained insufficient water volume for sampling during 2016. Monitoring well MW-3, which was located cross-gradient of the source area, was destroyed in February 2013. According to historical reports, phase-separated hydrocarbons (PSH) were observed in monitoring well MW-3 between September 1999 and some time prior to March 2010. Downgradient of the original source area, monitoring well MW-5 contained measurable PSH ranging from 1.73 feet to 1.75 feet thick. Previous laboratory analytical results for groundwater samples in the three downgradient monitoring wells (MW-4, MW-6, and MW-7) and one upgradient monitoring well MW-1 indicated benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations were compliant with the New Mexico Water Quality Control Commission (NMWQCC) standards for more than eight consecutive quarters and sampling of these wells was discontinued in February 2013. During 2016, LTE monitored groundwater elevations in monitoring wells MW-1, MW-2, MW-4, MW-5, MW-6, and MW-7 and measured PSH thickness in monitoring well MW-5. Depth to groundwater data indicated the groundwater flow was to the west/northwest.

Williams will continue to measure depth to groundwater and depth to PSH annually in monitoring wells MW-1, MW-2, MW-4, MW-5, MW-6, and MW-7. If water is present in monitoring well MW-2, a groundwater sample will be collected and analyzed for BTEX.

1.0 INTRODUCTION

LT Environmental, Inc. (LTE) has prepared this report on behalf of Williams Four Corners LLC (Williams) detailing the 2016 semi-annual groundwater monitoring activities at the Davis #1 facility (Site), Administrative/Environmental Order Number 3RP-311-0. The scope of work for this project includes semi-annual monitoring of petroleum hydrocarbon impacts to groundwater resulting from the operation of a former earthen dehydrator pit.

1.1 LOCATION

The Site is located at latitude 36.915721 and longitude -108.070642 in Unit E, Section 11, Township 31 North, Range 12 West, as depicted on Figure 1. The Site is in the Farmington Glade area of the San Juan Basin in San Juan County, New Mexico.

1.2 HISTORY

The source of the impacted groundwater is a former earthen dehydrator pit operated by the Gas Company of New Mexico (GCNM). Approximately 192 cubic yards of impacted soil were removed in May 1998. Based on historical documentation, residual petroleum hydrocarbon-impacted soil was left in place at the Site at a depth of 16 feet below ground surface (bgs). A soil sample from the base of the excavation at 16 feet bgs contained 61.8 milligrams per kilogram (mg/kg) of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and 59 mg/kg diesel range organics (DRO). Subsequent soil boring data indicated that impacted soil extended to approximately 55 feet bgs. Between February 1999 and August 1999, monitoring wells MW-1 through MW-7 were installed. Monitoring well MW-2 was installed in the source area (Figure 2).

Williams purchased the GCNM facilities from Public Service Company of New Mexico (PNM) in 2000 and assumed the environmental liability for the former earthen dehydrator pit. Between 2000 and December 2012, Williams monitored groundwater at the Site. Historical reports indicated monitoring wells MW-2, MW-3, and MW-5 have contained phase-separated hydrocarbons (PSH) at some time between September 1999 and December 2012. PSH was recovered from monitoring well MW-2 between 2008 and 2012. LTE, on behalf of Williams, has conducted groundwater monitoring at the Site from 2013 through 2016. Records regarding these activities are in previous groundwater reports submitted to the New Mexico Oil Conservation Division (NMOCD).

2.0 METHODOLOGY

2.1 SCOPE OF WORK

During 2016, LTE conducted semi-annual groundwater monitoring activities at the Site. These activities included measuring depth to groundwater and investigating the presence of PSH in six monitoring wells (MW-1, MW-2, MW-4, MW-5, MW-6, and MW-7). Previous laboratory analytical results for groundwater samples in the three downgradient monitoring wells (MW-4, MW-6, and MW-7) and one upgradient monitoring well MW-1 indicated BTEX concentrations were compliant with the New Mexico Water Quality Control Commission (NMWQCC) standards for more than eight consecutive quarters and sampling of these wells was discontinued in February 2013. Field forms are included in Appendix A.

2.2 WATER AND PRODUCT LEVEL MEASUREMENTS

Groundwater monitoring included recording depth to groundwater measurements and investigating for the presence of PSH with a Keck oil/water interface probe. The interface probe was decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement.

2.3 GROUNDWATER CONTOUR MAPS

LTE used existing top of well casing elevations and measured groundwater elevations to draft groundwater contours and determine groundwater flow direction for the June and December 2016 semi-annual monitoring events (Figures 2 and 3). Contours were inferred based on groundwater elevations obtained and observations of physical characteristics at the Site, such as topography and proximity to irrigation ditches.

3.0 RESULTS

Depth to groundwater data collected during the 2016 semi-annual monitoring events are summarized in Table 1. Groundwater flow direction was consistently to the west/northwest (Figures 2 and 3). Monitoring well MW-2 did not contain a sufficient groundwater volume for monitoring and could not be sampled. The surface completion of monitoring well MW-2 is damaged, making it impossible to secure with a padlock. Monitoring well MW-3 was destroyed prior to February 2013 and cannot be sampled. Groundwater was not sampled from monitoring well MW-5 during 2016 due to the presence of PSH. The polyvinyl chloride (PVC) casing of monitoring well MW-5 is loose within the metal surface completion and a 2-inch disposable bailer will not fit down the well for efficient product recovery. The volume of PSH in monitoring well MW-5 has decreased since 2013, and the thickness of PSH ranged from 1.75 feet on June 13, 2016, to 1.73 feet on December 1, 2016. Historical groundwater quality data are presented in Table 2.

4.0 CONCLUSIONS

The severity of impact to groundwater in the source area at monitoring well MW-2 is currently unknown due to insufficient water in the monitoring well. Monitoring well MW-3 has been

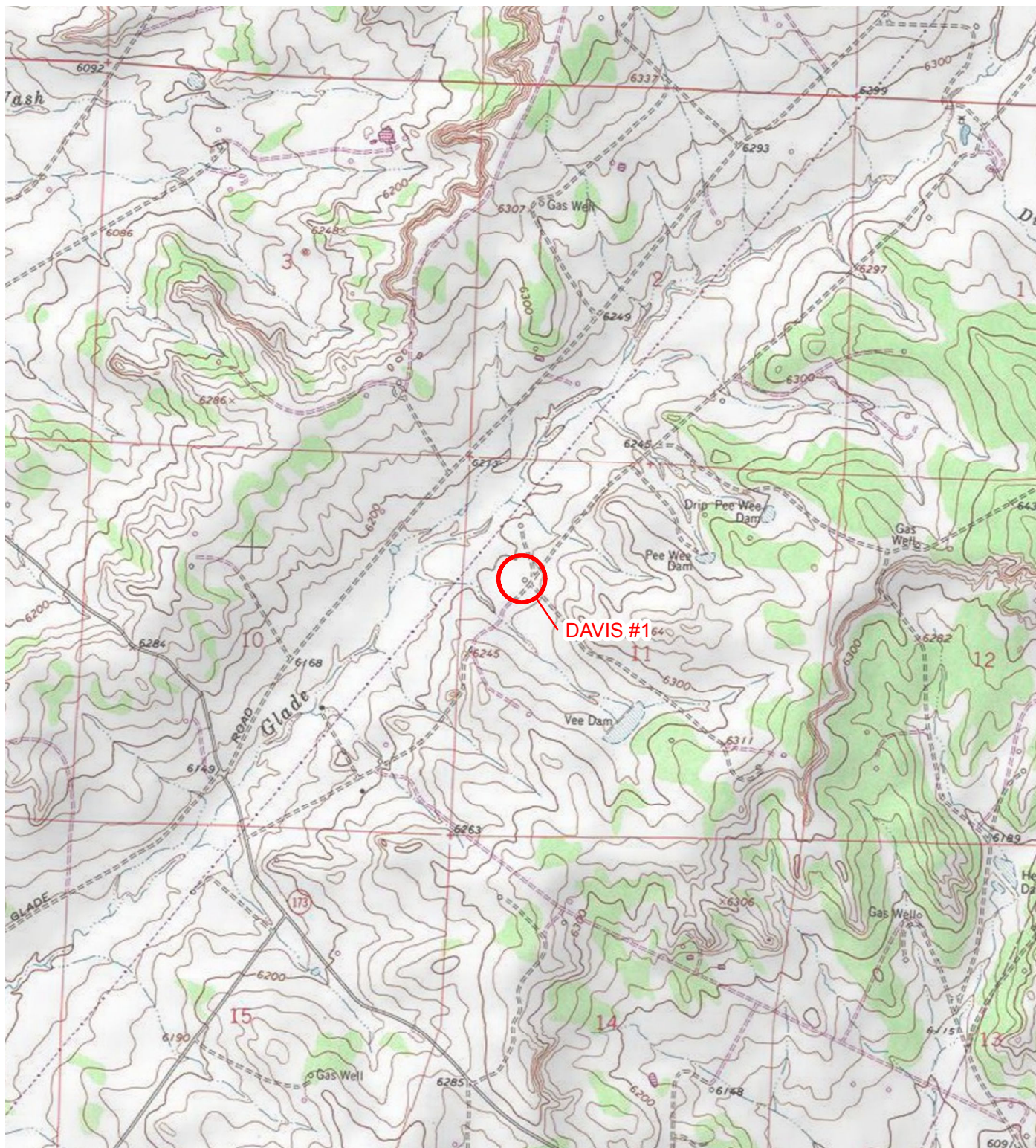
destroyed. Due to the cross-gradient location of monitoring well MW-3 to the source area and downgradient of the on-site production tank(s), PSH historically observed in monitoring well MW-3 may have been separately sourced. PSH continues to accumulate in monitoring well MW-5, downgradient of the original source area; however, the volume of PSH has decreased since 2013.

5.0 MONITORING PLAN

Williams will continue to measure depth to groundwater and depth to PSH annually in monitoring wells MW-1, MW-2, MW-4, MW-5, MW-6, and MW-7. If groundwater is present in monitoring well MW-2, a sample will be collected and analyzed for BTEX.



FIGURES



LEGEND

○ SITE LOCATION

IMAGE COURTESY OF ESRI/BING MAPS

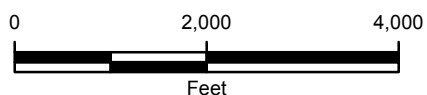
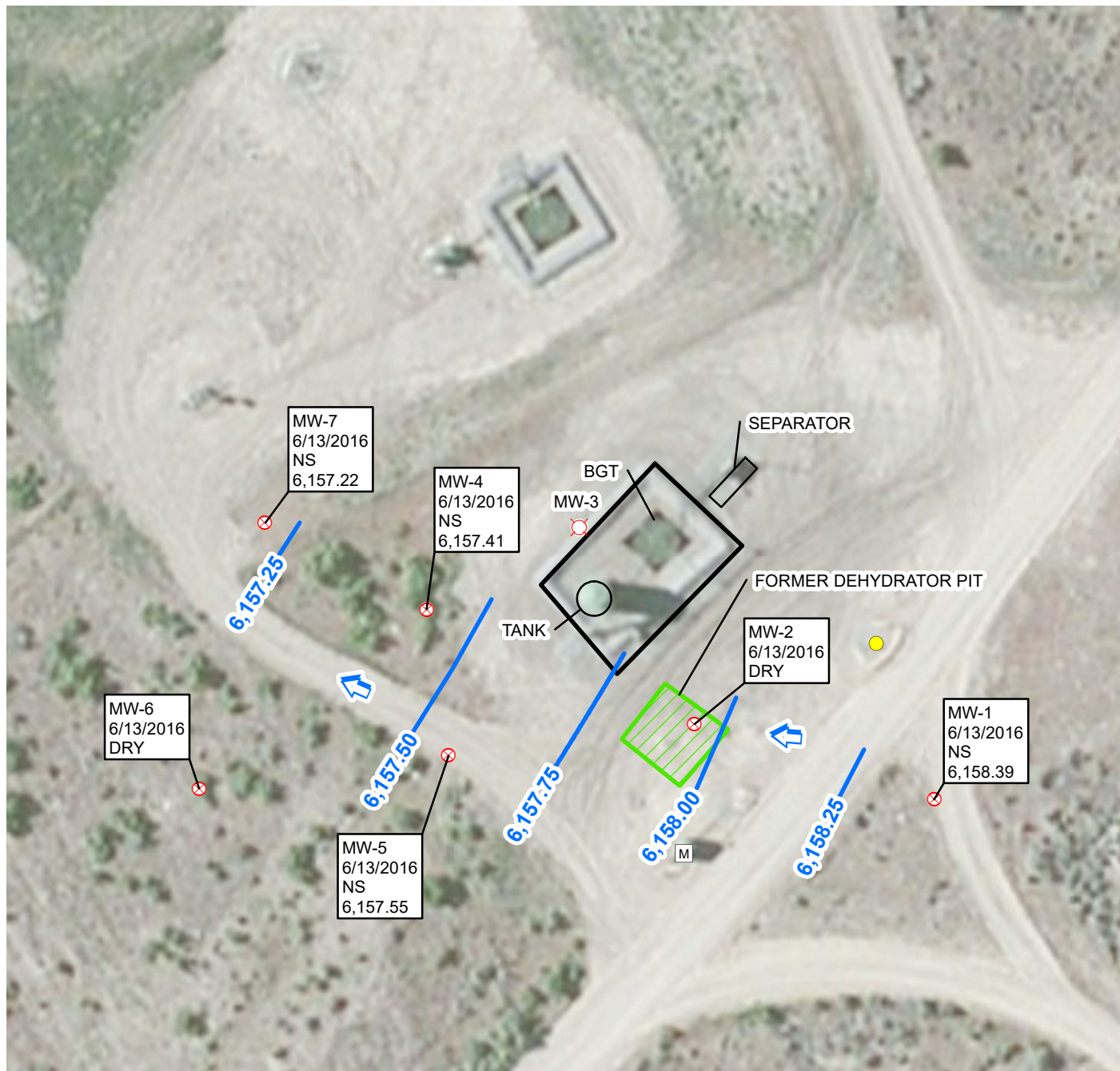


FIGURE 1
SITE LOCATION MAP
DAVIS #1
SAN JUAN COUNTY, NEW MEXICO

WILLIAMS FOUR CORNERS LLC





LEGEND

- WELLHEAD
- ⊗ MONITORING WELL
- ⊗ DESTROYED MONITORING WELL
- M METER HOUSE



ESTIMATED GROUNDWATER FLOW DIRECTION

— RELATIVE GROUNDWATER ELEVATION CONTOUR
CONTOUR INTERVAL = 0.25 FEET

BERM

BGT: BELOW GRADE TANK

*MW02 AND MW06 NOT USED TO GENERATE
GROUNDWATER ELEVATION CONTOURS

SAMPLE ID
SAMPLE DATE
NS: NOT SAMPLED
ELEV: RELATIVE GROUNDWATER ELEVATION IN FEET

IMAGE COURTESY OF ESRI

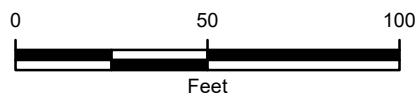
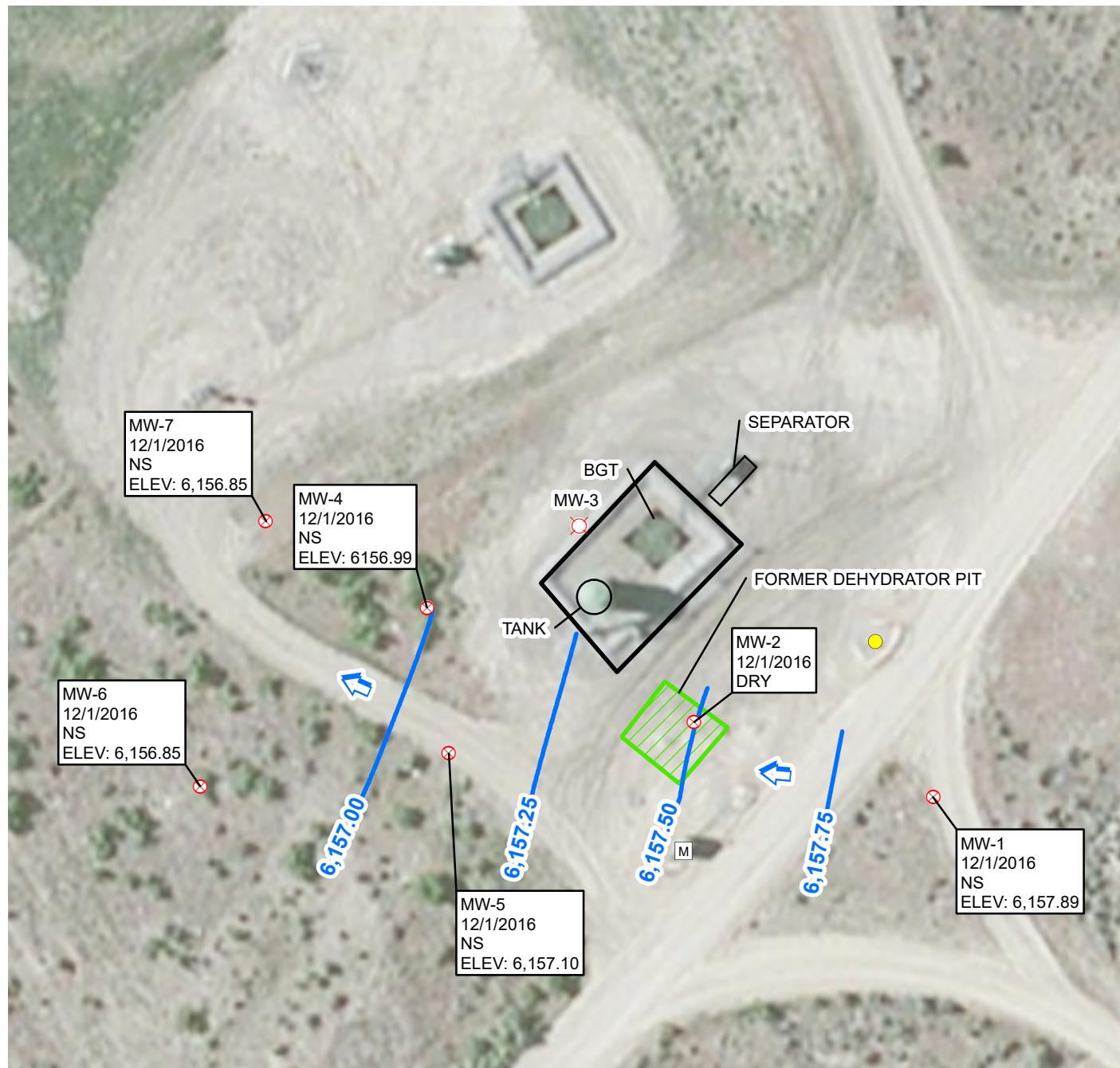


FIGURE 2
GROUNDWATER ELEVATION MAP
(JUNE 2016)
DAVIS #1
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC





LEGEND

- WELLHEAD
- ⊗ MONITORING WELL
- ⊗ DESTROYED MONITORING WELL
- M METER HOUSE



ESTIMATED GROUNDWATER FLOW DIRECTION

— RELATIVE GROUNDWATER ELEVATION CONTOUR
CONTOUR INTERVAL = 0.25 FEET

BERM

BGT: BELOW GRADE TANK

*MW02 WAS NOT USED TO GENERATE
GROUNDWATER ELEVATION CONTOURS

SAMPLE ID
SAMPLE DATE
NS: NOT SAMPLED
ELEV: RELATIVE GROUNDWATER ELEVATION IN FEET

IMAGE COURTESY OF ESRI

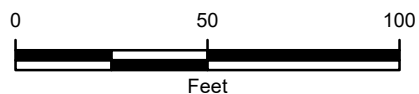


FIGURE 3
GROUNDWATER ELEVATION MAP
(DECEMBER 2016)
DAVIS #1
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC



TABLES

**TABLE 1
GROUNDWATER ELEVATION SUMMARY**

**DAVIS #1
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-1	4/4/2012	6,217.14	UNK	UNK	UNK	UNK
MW-1	6/13/2012	6,217.14	UNK	UNK	UNK	UNK
MW-1	10/2/2012	6,217.14	UNK	UNK	UNK	UNK
MW-1	12/13/2012	6,217.14	UNK	UNK	UNK	UNK
MW-1	2/27/2013	6,217.14	65.44	NP	NP	6,151.70
MW-1*	6/27/2013	6,224.82	65.65	NP	NP	6,159.17
MW-1	9/23/2013	6,224.82	66.06	NP	NP	6,158.76
MW-1	12/4/2013	6,224.82	65.97	NP	NP	6,158.85
MW-1	3/20/2014	6,224.82	65.96	NP	NP	6,158.86
MW-1	6/10/2014	6,224.82	66.05	NP	NP	6,158.77
MW-1	9/15/2014	6,224.82	66.07	NP	NP	6,158.75
MW-1	12/10/2014	6,224.82	66.58	NP	NP	6,158.24
MW-1	3/12/2015	6,224.82	66.40	NP	NP	6,158.42
MW-1	9/14/2015	6,224.82	66.73	NP	NP	6,158.09
MW-1	6/13/2016	6,224.82	66.43	NP	NP	6,158.39
MW-1	12/1/2016	6,224.82	66.93	NP	NP	6,157.89
MW-2	4/4/2012	6,215.55	UNK	UNK	UNK	UNK
MW-2	6/13/2012	6,215.55	UNK	UNK	UNK	UNK
MW-2	10/2/2012	6,215.55	UNK	UNK	UNK	UNK
MW-2	12/13/2012	6,215.55	UNK	UNK	UNK	UNK
MW-2	2/27/2013	6,215.55	63.35	NP	NP	6,152.20
MW-2*	6/27/2013	6,222.98	DRY	NP	NP	DRY
MW-2	9/23/2013	6,222.98	DRY	NP	NP	DRY
MW-2	12/4/2013	6,222.98	DRY	NP	NP	DRY
MW-2	3/20/2014	6,222.98	DRY	NP	NP	DRY
MW-2	6/10/2014	6,222.98	DRY	NP	NP	DRY
MW-2	9/15/2014	6,222.98	DRY	NP	NP	DRY
MW-2	12/10/2014	6,222.98	DRY	NP	NP	DRY
MW-2	3/12/2015	6,222.98	DRY	NP	NP	DRY
MW-2	9/14/2015	6,222.98	DRY	NP	NP	DRY
MW-2	6/13/2016	6,222.98	DRY	NP	NP	DRY
MW-2	12/1/2016	6,222.98	DRY	NP	NP	DRY
MW-3	4/4/2012	UNK	UNK	UNK	UNK	UNK
MW-3	6/13/2012	UNK	UNK	UNK	UNK	UNK
MW-3	10/2/2012	UNK	UNK	UNK	UNK	UNK
MW-3	12/13/2012	UNK	UNK	UNK	UNK	UNK
MW-3	2/27/2013	DEST	DEST	DEST	DEST	DEST
MW-4	4/4/2012	6,210.56	UNK	UNK	UNK	UNK
MW-4	6/13/2012	6,210.56	UNK	UNK	UNK	UNK
MW-4	10/2/2012	6,210.56	UNK	UNK	UNK	UNK
MW-4	12/13/2012	6,210.56	UNK	UNK	UNK	UNK
MW-4	2/27/2013	6,210.56	59.87	NP	NP	6,150.69
MW-4*	6/27/2013	6,218.14	60.02	NP	NP	6,158.12
MW-4	9/23/2013	6,218.14	60.39	NP	NP	6,157.75
MW-4	12/4/2013	6,218.14	60.15	NP	NP	6,157.99
MW-4	3/20/2014	6,218.14	60.18	NP	NP	6,157.96
MW-4	6/10/2014	6,218.14	60.27	NP	NP	6,157.87
MW-4	9/15/2014	6,218.14	60.32	NP	NP	6,157.82
MW-4	12/10/2014	6,218.14	60.78	NP	NP	6,157.36
MW-4	3/12/2015	6,218.14	60.64	NP	NP	6,157.50
MW-4	9/14/2015	6,218.14	60.98	NP	NP	6,157.16
MW-4	6/13/2016	6,218.14	60.73	NP	NP	6,157.41
MW-4	12/1/2016	6,218.14	61.15	NP	NP	6,156.99
MW-5	4/4/2012	6,212.18	UNK	UNK	UNK	UNK
MW-5	6/13/2012	6,212.18	UNK	UNK	UNK	UNK
MW-5	10/2/2012	6,212.18	UNK	UNK	UNK	UNK



**TABLE 1
GROUNDWATER ELEVATION SUMMARY**

**DAVIS #1
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-5	12/13/2012	6,212.18	UNK	UNK	UNK	UNK
MW-5	2/27/2013	6,212.18	63.19	60.94	2.25	6,150.79
MW-5*	6/27/2013	6,220.03	63.52	61.31	2.21	6,158.28
MW-5	9/23/2013	6,220.03	63.55	61.79	1.76	6,157.89
MW-5	12/4/2013	6,220.03	63.15	61.62	1.53	6,158.10
MW-5	3/20/2014	6,220.03	63.19	61.63	1.56	6,158.09
MW-5	6/10/2014	6,220.03	63.31	61.73	1.58	6,157.98
MW-5	9/15/2014	6,220.03	63.33	61.80	1.53	6,157.92
MW-5	12/10/2014	6,220.03	63.38	62.28	1.10	6,157.53
MW-5	3/12/2015	6,220.03	63.99	62.05	1.94	6,157.59
MW-5	9/14/2015	6,220.03	64.28	62.36	1.92	6,157.29
MW-5	6/13/2016	6,220.03	63.88	62.13	1.75	6,157.55
MW-5	12/1/2016	6,220.03	64.31	62.58	1.73	6,157.10
MW-6	4/4/2012	6,211.23	UNK	UNK	UNK	UNK
MW-6	6/13/2012	6,211.23	UNK	UNK	UNK	UNK
MW-6	10/2/2012	6,211.23	UNK	UNK	UNK	UNK
MW-6	12/13/2012	6,211.23	UNK	UNK	UNK	UNK
MW-6	2/27/2013	6,211.23	60.68	NP	NP	6,150.55
MW-6*	6/27/2013	6,218.82	60.95	NP	NP	6,157.87
MW-6	9/23/2013	6,218.82	61.26	NP	NP	6,157.56
MW-6	12/4/2013	6,218.82	60.93	NP	NP	6,157.89
MW-6	3/20/2014	6,218.82	60.98	NP	NP	6,157.84
MW-6	6/10/2014	6,218.82	61.16	NP	NP	6,157.66
MW-6	9/15/2014	6,218.82	61.14	NP	NP	6,157.68
MW-6	12/10/2014	6,218.82	61.58	NP	NP	6,157.24
MW-6	3/12/2015	6,218.82	61.80	NP	NP	6,157.02
MW-6	9/14/2015	6,218.82	61.90	NP	NP	6,156.92
MW-6	6/13/2016	6,218.82	DRY	NP	NP	DRY
MW-6	12/1/2016	6,218.82	61.97	NP	NP	6,156.85
MW-7	4/4/2012	6,209.18	UNK	UNK	UNK	UNK
MW-7	6/13/2012	6,209.18	UNK	UNK	UNK	UNK
MW-7	10/2/2012	6,209.18	UNK	UNK	UNK	UNK
MW-7	12/13/2012	6,209.18	UNK	UNK	UNK	UNK
MW-7	2/27/2013	6,209.18	58.68	NP	NP	6,150.50
MW-7*	6/27/2013	6,216.82	58.84	NP	NP	6,157.98
MW-7	9/23/2013	6,216.82	59.21	NP	NP	6,157.61
MW-7	12/4/2013	6,216.82	58.94	NP	NP	6,157.88
MW-7	3/20/2014	6,216.82	58.97	NP	NP	6,157.85
MW-7	6/10/2014	6,216.82	59.09	NP	NP	6,157.73
MW-7	9/15/2014	6,216.82	59.05	NP	NP	6,157.77
MW-7	12/10/2014	6,216.82	59.59	NP	NP	6,157.23
MW-7	3/12/2015	6,216.82	59.48	NP	NP	6,157.34
MW-7	9/14/2015	6,216.82	59.81	NP	NP	6,157.01
MW-7	6/13/2016	6,216.82	59.60	NP	NP	6,157.22
MW-7	12/1/2016	6,216.82	59.97	NP	NP	6,156.85

Notes:

* Top of casing elevation was resurveyed on 6/21/13

Groundwater elevation calculation in wells with product: (Top of Casing Elevation - Depth to Water) + (Product Thickness * AMSL - above mean sea level

BTOC - below top of casing

DEST - well has been destroyed

NP - no product

UNK - data is not known



TABLE 2
GROUNDWATER LABORATORY ANALYTICAL RESULTS

DAVIS #1
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		10	750	750	620
MW-1	5/25/1999	<0.5	<0.5	<0.5	<1.5
MW-1	9/20/1999	<0.5	<0.5	<0.5	<1.5
MW-1	12/8/1999	<0.5	<0.5	<0.5	<1.5
MW-1	3/14/2000	<0.5	<0.5	<0.5	<1.5
MW-1	6/8/2000	<0.5	<0.5	<0.5	<1.5
MW-1	11/14/2000	<1	<1	<1	<1
MW-1	1/5/2001	<1	<1	<1	<1
MW-1	10/2/2001	<1.0	<2.0	<2.0	<2.0
MW-1	9/21/2004	<2.0	<2.0	<2.0	<5.0
MW-1	3/3/2005	<2.0	<2.0	<2.0	<5.0
MW-1	9/15/2005	<2.0	<2.0	<2.0	<5.0
MW-1	12/2/2005	<2.0	<2.0	<2.0	<5.0
MW-1	9/19/2006	<1.0	<1.0	<1.0	<3.0
MW-1	3/26/2008	<1.0	<1.0	<1.0	<3.0
MW-1	6/10/2008	<1.0	<1.0	<1.0	<3.0
MW-1	9/18/2008	<1.0	<1.0	<1.0	<3.0
MW-1	12/4/2008	<1.0	<1.0	<1.0	<3.0
MW-1	7/8/2009	<1.0	<1.0	<1.0	<3.0
MW-1	9/9/2009	<1.0	<1.0	<1.0	<3.0
MW-1	12/21/2009	<1.0	<1.0	<1.0	3.0
MW-1	3/30/2010	<1.0	<1.0	<1.0	<3.0
MW-1	6/18/2010	<1.0	<1.0	<1.0	<3.0
MW-1	9/9/2010	<1.0	<1.0	<1.0	<3.0
MW-1	12/3/2010	<1.0	<1.0	<1.0	<3.0
MW-1	3/2/2011	<1.0	<1.0	<1.0	<3.0
MW-1	6/15/2011	<1.0	<1.0	<1.0	<3.0
MW-1	9/14/2011	<1.0	<1.0	<1.0	<3.0
MW-1	1/10/2012	<1.0	<1.0	<1.0	<3.0
MW-1	4/4/2012	<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	<1.0	<1.0	<1.0	<3.0
MW-1	12/13/2012	<1.0	<1.0	<1.0	<3.0
MW-1	2/27/2013	<2.0	<2.0	<2.0	<4.0
MW-2	5/25/1999	NS	NS	NS	NS
MW-2	9/20/1999	NS	NS	NS	NS
MW-2	12/8/1999	19,000	34,000	1,000	8,700
MW-2	3/14/2000	17,000	31,000	9,200	7,800
MW-2	6/8/2000	16,000	33,000	970	8,600
MW-2	10/2/2001	16,000	36,000	730	7,300
MW-2	3/13/2002	12,000	23,000	870	7,900
MW-2	12/15/2003	11,000	27,000	700	6,100
MW-2	4/4/2012	NS	NS	NS	NS
MW-2	6/13/2012	NS	NS	NS	NS
MW-2	10/2/2012	NS	NS	NS	NS
MW-2	12/13/2012	NS	NS	NS	NS
MW-2	2/27/2013	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	6/21/2013	NS-IW	NS-IW	NS-IW	NS-IW



TABLE 2
GROUNDWATER LABORATORY ANALYTICAL RESULTS

DAVIS #1
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		10	750	750	620
MW-2	9/23/2013	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	12/4/2013	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	3/20/2014	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	6/10/2014	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	9/15/2014	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	12/10/2014	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	3/12/2015	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	9/14/2015	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	6/13/2016	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	12/1/2016	NS-IW	NS-IW	NS-IW	NS-IW
MW-3	5/25/1999	NS	NS	NS	NS
MW-3	9/20/1999	NS	NS	NS	NS
MW-3	12/8/1999	NS	NS	NS	NS
MW-3	3/14/2000	NS	NS	NS	NS
MW-3	6/8/2000	NS	NS	NS	NS
MW-3	3/8/2005	NS	NS	NS	NS
MW-3	4/4/2012	NS	NS	NS	NS
MW-3	6/13/2012	NS	NS	NS	NS
MW-3	10/2/2012	NS	NS	NS	NS
MW-3	12/13/2012	NS	NS	NS	NS
MW-3	2/27/2013	DEST	DEST	DEST	DEST
MW-4	5/25/1999	<0.5	<0.5	<0.5	<1.5
MW-4	9/20/1999	<0.5	<0.5	<0.5	<1.5
MW-4	12/8/1999	<0.5	<0.5	<0.5	<1.5
MW-4	3/14/2000	<0.5	<0.5	<0.5	<1.5
MW-4	6/8/2000	<0.5	<0.5	<0.5	<1.5
MW-4	11/14/2000	<1	<1	<1	<1
MW-4	1/5/2001	<1	<1	<1	<1
MW-4	10/2/2001	<1.0	<2.0	<2.0	<2.0
MW-4	12/15/2003	<2.0	<2.0	<2.0	<5.0
MW-4	9/21/2004	<2.0	<2.0	<2.0	<5.0
MW-4	12/2/2004	<2.0	<2.0	<2.0	<5.0
MW-4	3/3/2005	<2.0	<2.0	<2.0	<5.0
MW-4	6/17/2005	<2.0	2.9	<2.0	<5.0
MW-4	9/15/2005	<2.0	<2.0	<2.0	<5.0
MW-4	12/2/2005	<2.0	<2.0	<2.0	<5.0
MW-4	6/2/2006	<1.0	<1.0	<1.0	<3.0
MW-4	9/19/2006	<1.0	<1.0	<1.0	<3.0
MW-4	3/26/2008	<1.0	<1.0	<1.0	<3.0
MW-4	6/10/2008	<1.0	<1.0	<1.0	<3.0
MW-4	9/18/2008	<1.0	<1.0	<1.0	<3.0
MW-4	12/4/2008	<1.0	<1.0	<1.0	<3.0
MW-4	7/8/2009	<1.0	<1.0	<1.0	<3.0
MW-4	9/9/2009	<1.0	<1.0	<1.0	<3.0
MW-4	6/18/2010	<1.0	<1.0	<1.0	<3.0



TABLE 2
GROUNDWATER LABORATORY ANALYTICAL RESULTS

DAVIS #1
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		10	750	750	620
MW-4	9/9/2010	<1.0	<1.0	<1.0	<3.0
MW-4	12/3/2010	<1.0	<1.0	<1.0	<3.0
MW-4	3/2/2011	<1.0	<1.0	<1.0	<3.0
MW-4	6/15/2011	<1.0	<1.0	<1.0	<3.0
MW-4	9/14/2011	<1.0	<1.0	<1.0	<3.0
MW-4	1/10/2012	<1.0	<1.0	<1.0	<3.0
MW-4	4/4/2012	<1.0	<1.0	<1.0	<3.0
MW-4	6/13/2012	<1.0	<1.0	<1.0	<3.0
MW-4	10/2/2012	<1.0	<1.0	<1.0	<3.0
MW-4	12/13/2012	<1.0	<1.0	<1.0	<3.0
MW-4	2/27/2013	<2.0	<2.0	<2.0	<4.0
MW-5	5/25/1999	NS	NS	NS	NS
MW-5	9/20/1999	NS	NS	NS	NS
MW-5	12/8/1999	900	3,100	380	3,090
MW-5	3/14/2000	290	340	190	1,300
MW-5	6/8/2000	670	38	280	1,685
MW-5	11/14/2000	814	28.2	210	569
MW-5	1/5/2001	1,780	44.9	252	598
MW-5	10/2/2001	6,200	210	610	510
MW-5	3/13/2002	3,700	200	370	380
MW-5	12/2/2004	8,500	1,000	280	740
MW-5	3/3/2005	6,600	2,500	290	2,400
MW-5	6/22/2006	6.6	1.0	<1.0	<3.0
MW-5	9/19/2006	3,800	919	163	928
MW-5	4/4/2012	NS	NS	NS	NS
MW-5	6/13/2012	NS	NS	NS	NS
MW-5	10/2/2012	NS	NS	NS	NS
MW-5	12/13/2012	11,800	1,270	7,620	8,910
MW-5	2/27/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	6/21/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	9/23/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	12/4/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	3/20/2014	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	6/10/2014	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	9/15/2014	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	12/10/2014	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	3/12/2015	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	9/14/2015	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	6/13/2016	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	12/1/2016	NS-FP	NS-FP	NS-FP	NS-FP
MW-6	5/25/1999	NS	NS	NS	NS
MW-6	9/20/1999	<0.5	<0.5	<0.5	<1.5
MW-6	12/8/1999	<0.5	<0.5	<0.5	<1.5
MW-6	3/14/2000	<0.5	<0.5	<0.5	<1.5
MW-6	6/8/2000	<0.5	<0.5	<0.5	<1.5



TABLE 2
GROUNDWATER LABORATORY ANALYTICAL RESULTS

DAVIS #1
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		10	750	750	620
MW-6	11/14/2000	<1	<1	<1	<1
MW-6	1/5/2001	<1	<1	<1	<1
MW-6	3/13/2002	<2.0	<2.0	<2.0	<5.0
MW-6	12/15/2003	<2.0	<2.0	<2.0	<5.0
MW-6	9/21/2004	<2.0	<2.0	<2.0	<5.0
MW-6	12/2/2004	<2.0	<2.0	<2.0	<5.0
MW-6	3/3/2005	<2.0	<2.0	<2.0	<5.0
MW-6	6/17/2005	<2.0	<2.0	<2.0	<5.0
MW-6	9/15/2005	<2.0	<2.0	<2.0	<5.0
MW-6	12/2/2005	<2.0	<2.0	<2.0	<5.0
MW-6	6/22/2006	<1.0	<1.0	<1.0	<3.0
MW-6	9/19/2006	<1.0	<1.0	<1.0	<3.0
MW-6	3/26/2008	<1.0	<1.0	<1.0	<3.0
MW-6	6/10/2008	<1.0	<1.0	<1.0	<3.0
MW-6	9/18/2008	<1.0	<1.0	<1.0	<3.0
MW-6	12/4/2008	<1.0	<1.0	<1.0	<3.0
MW-6	7/8/2009	<1.0	<1.0	<1.0	<3.0
MW-6	9/9/2009	<1.0	<1.0	<1.0	<3.0
MW-6	12/21/2009	<1.0	<1.0	<1.0	<3.0
MW-6	3/30/2010	<1.0	<1.0	<1.0	<3.0
MW-6	6/18/2010	<1.0	<1.0	<1.0	<3.0
MW-6	9/9/2010	<1.0	<1.0	<1.0	<3.0
MW-6	12/3/2010	<1.0	<1.0	<1.0	<3.0
MW-6	3/2/2011	<1.0	<1.0	<1.0	<3.0
MW-6	6/15/2011	<1.0	<1.0	<1.0	<3.0
MW-6	9/14/2011	<1.0	<1.0	<1.0	<3.0
MW-6	1/10/2012	<1.0	<1.0	<1.0	<3.0
MW-6	4/4/2012	<1.0	<1.0	<1.0	<3.0
MW-6	6/13/2012	<1.0	<1.0	<1.0	<3.0
MW-6	10/2/2012	<1.0	<1.0	<1.0	<3.0
MW-6	12/13/2012	<1.0	<1.0	<1.0	<3.0
MW-6	2/27/2013	<1.0	<1.0	<1.0	<2.0
MW-6	6/21/2013	<1.0	9.8	<1.0	12
MW-7	5/25/1999	NS	NS	NS	NS
MW-7	9/20/1999	<0.5	<0.5	<0.5	<1.5
MW-7	12/8/1999	<0.5	<0.5	<0.5	<1.5
MW-7	3/14/2000	<0.5	<0.5	<0.5	<1.5
MW-7	6/8/2000	<0.5	<0.5	<0.5	<1.5
MW-7	11/14/2000	<1	<1	<1	<1
MW-7	1/5/2001	<1	<1	<1	<1
MW-7	3/13/2002	<2.0	<2.0	<2.0	<5.0
MW-7	12/15/2003	<2.0	<2.0	<2.0	<5.0
MW-7	9/21/2004	<2.0	<2.0	<2.0	<5.0
MW-7	12/2/2004	<2.0	<2.0	<2.0	<5.0
MW-7	3/3/2005	<2.0	<2.0	<2.0	<5.0
MW-7	6/17/2005	<2.0	<2.0	<2.0	<5.0



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GROUNDWATER LABORATORY ANALYTICAL RESULTS

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SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		10	750	750	620
MW-7	9/15/2005	<2.0	<2.0	<2.0	<5.0
MW-7	12/2/2005	<2.0	<2.0	<2.0	<5.0
MW-7	6/22/2006	<1.0	<1.0	<1.0	<3.0
MW-7	9/19/2006	<1.0	<1.0	<1.0	<3.0
MW-7	3/26/2008	<1.0	<1.0	<1.0	<3.0
MW-7	6/10/2008	<1.0	<1.0	<1.0	<3.0
MW-7	9/18/2008	<1.0	<1.0	<1.0	<3.0
MW-7	12/4/2008	<1.0	<1.0	<1.0	<3.0
MW-7	7/8/2009	<1.0	<1.0	<1.0	<3.0
MW-7	9/9/2009	<1.0	<1.0	<1.0	<3.0
MW-7	12/21/2009	<1.0	<1.0	<1.0	<3.0
MW-7	3/30/2010	<1.0	<1.0	<1.0	<3.0
MW-7	6/18/2010	<1.0	<1.0	<1.0	<3.0
MW-7	9/9/2010	<1.0	<1.0	<1.0	<3.0
MW-7	12/3/2010	<1.0	<1.0	<1.0	<3.0
MW-7	3/2/2011	<1.0	<1.0	<1.0	<3.0
MW-7	6/15/2011	<1.0	<1.0	<1.0	<3.0
MW-7	9/14/2011	<1.0	<1.0	<1.0	<3.0
MW-7	1/10/2012	<1.0	<1.0	<1.0	<3.0
MW-7	4/4/2012	<1.0	<1.0	<1.0	<3.0
MW-7	6/13/2012	<1.0	<1.0	<1.0	<3.0
MW-7	10/2/2012	<1.0	<1.0	<1.0	<3.0
MW-7	12/13/2012	<1.0	<1.0	<1.0	<3.0
MW-7	2/27/2013	<2.0	<2.0	<2.0	<4.0
MW-7	6/21/2013	<1.0	<1.0	<1.0	<2.0

Notes:

< - indicates result is less than laboratory reporting detection limit

Bold - indicates sample exceeds NMWQCC standard

DEST - well has been destroyed

NMWQCC - New Mexico Water Quality Control Commission

NS- not sampled

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

NS-IW - well did not contain sufficient volume of water to be sampled

µg/L - micrograms per liter

APPENDIX A
2016 SEMIANNUAL FIELD NOTES



Location Davis #1 Date 6/13/16 73
 Project / Client Quarterly groundwater

0945 AC on site

Sunny / warm / T 59

- JSA + HASP

well	DTW	TD	product	Sample
			✓	TIME
MW1	66.43	NM	-	-
MW2	dry	63.15	-	Not Sampled
MW3	60.73	NM	-	-
MW5	63.88	NM	62.13	Not Sampled
MW6	Dry	62.72	-	-
MW7	59.60	NM	-	-

NM = Not measured

* MW-2 - Well is dry did not take sample

- Stormwater issue has caused erosion around the well casing

- Well casing seemed to be crooked, ground level is 8 inches lower than well vault.

* MW-5 - 1.75 feet of product sample not taken

1015 AC off site

Location Davis #1Date 12-1-16

Project / Client _____

T4, WOIP,Sunny, cold 30°0945 - JA onsite, review HASP, JSA

Well	DTW	DP	TD	Sample Time
MW-1	66.93	-	NM	-
MW-2	dry	-	6315	-
MW-4	61.15	-	-	-
MW-5	64.31	62.58	-	-
MW-6	61.97	-	-	-
MW-7	59.97	-	-	-

- MW-2 dry did not sample
- MW-5 has product did not sample
- 1050 - JA onsite