

2016 ANNUAL GROUNDWATER REPORT

Knight #1

NMOCD Case #: 3RP-207-0

Meter Code: 72556

T30N, R13W, Sec5, Unit A

SITE DETAILS

Site Location: Latitude: 36.846870 N, Longitude: -108.222305 W

Land Type: Fee

Operator: Fuller Production (Well P&A'd)

SITE BACKGROUND

- **Site Assessment:** 1/95
- **Excavation:** 1/95 (60 cy)
- **ORC Nutrient Injection** 11/96

Environmental Remediation activities at the Knight #1 (Site) are being managed pursuant to the procedures set forth in the document entitled, "Remediation Plan for Groundwater Encountered during Pit Closure Activities" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (OCD) in correspondence dated November 30, 1995; and the OCD approval conditions were adopted into El Paso CGP Company, LLC's (EPCGP's) program methods. Formerly, the Site was operated by Fuller Production, Inc. and is no longer active. The wellhead was plugged and abandoned in August 2006.

The Site is located on Private/Fee land. Various site investigations have occurred from 1995 through 2016. Monitoring wells were installed in 1995 (MW-1 through MW-4), 2000 (MW-5), and 2015 (MW-6 through MW-13). A soil assessment was completed in 2016 (GP-1 through GP-24). Free product recovery has been periodically observed and recovered at the Site. In 2016, free product was observed in monitoring well MW-4 and 0.16 gallon was removed. Currently, groundwater sampling is conducted on a semi-annual basis.

SOIL BORING ACTIVITIES

A total of 24 direct push soil borings (GP-1 though GP-24) were advanced in March 2016, to evaluate the general extent of hydrocarbons to be addressed in a planned future excavation of the Site. The soil boring locations were first staked and surveyed for permitting and utility locating purposes. Soil borings were advanced by Vista Geoscience in accordance with the 2016 Soil Assessment Work Plan, submitted to the NMOCD on March 1, 2016 (Work Plan). Pertinent site features and soil boring locations are shown in Figure 1-6. Boring logs are included as Appendix A.

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During direct push activities, recovered soil cores were logged and field screened with a photoionization detector (PID) in 1 foot intervals. No soil samples were retained for off-site laboratory analysis. Historical sampling results are shown in Figure 2. Following advancement and abandonment, the final soil boring locations were surveyed by a licensed surveyor using state plane coordinates. Decontamination water was containerized and transported to Basin Disposal, Inc. in Bloomfield, New Mexico for disposal. Soil drums were staged on site for later disposal at Envirotech, Inc. (Envirotech), located south of Bloomfield, New Mexico. On March 11, 2016, Sierra Oilfield Services, Inc. removed 2 drums of soil cuttings from the Site and delivered them to Envirotech. Disposal documentation is contained in Appendix B.

GROUNDWATER SAMPLING ACTIVITIES

Groundwater monitoring and sampling was completed on April 15 and October 11, 2016. During each sampling event, water levels were gauged from monitoring wells MW-1 through MW-13. Monitoring wells MW-1, MW-2, MW-4, MW-7, MW-8 and MW-11 were sampled in 2016 to evaluate concentration trends at these locations. Monitoring wells MW-3, MW-5, MW-6, MW-9, MW-10, MW-12, and MW-13 were not sampled in 2016.

Groundwater samples were collected from selected monitoring wells using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. A groundwater sample was not collected from monitoring well MW-4 on October 11, 2016 due to the presence of free product. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above termination depth of the monitoring wells using a suspension tether and stainless steel weights to collect a sample from the screened interval.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to TestAmerica-Pensacola where they were analyzed for BTEX. Additional field parameters were collected from the excess sample water recovered by the HydraSleeve. Excess sample water was poured into an YSI multi-parameter instrument sample cup and analyzed. Field parameters include dissolved oxygen, temperature, conductivity, pH, and oxidation-reduction potential (ORP). Field parameters are not collected if free product is present. The unused sample water is combined in a waste container and taken to Basin Disposal, Inc. for disposal.

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 1 and 2, respectively. When free product was present, static water level elevations were corrected for measurable thicknesses of free product (specific gravity of 0.75).

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SITE MAPS

Soil boring locations and PID results are shown in Figure 1. Historical soil analytical results are summarized in Figure 2. Groundwater analytical maps and groundwater elevation contour maps from each sampling event are included as Figures 3 through 6.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix C.

GROUNDWATER RESULTS

- The groundwater flow direction at the Site is generally to the south (see Figures 4 and 6).
- Free product was observed in MW-4 at the time of the October 2016 sampling event. No sample was collected from MW-4 on October 2016.
- Groundwater samples collected in 2016 from MW-1, MW-4, MW-7, and MW-11 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 µg/L) for benzene in groundwater. Monitoring wells MW-2, and MW-8 were either below the standard or not detected.
- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or not detected in all of the Site monitoring wells sampled in 2016.
- A groundwater sample collected in April 2016 from MW-1 exceeded the NMWQCC standard (750 µg/L) for ethylbenzene in groundwater. Monitoring wells MW-2, MW-4, MW-7, MW-8, and MW-11 were either below the standard or not detected.
- Groundwater samples collected in 2016 from MW-1, MW-7, and MW-11, exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. Monitoring wells MW-2, MW-4, and MW-8, were either below the standard or not detected.

SOIL RESULTS

The direct-push soil boring locations were field screened with a PID at 1 foot intervals to a depth of 30 feet below ground surface (bgs). A summary of the screening results are listed below.

Field screening results at soil boring locations: GP-4, GP-7, GP-11, GP-13, GP-14, GP-15, GP-16, GP-19, GP-20, and GP-23 had PID readings of 1000 parts per million by volume (ppmv) or greater, at depths ranging from 15 to 25 feet bgs.

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Field screening results at soil boring locations: GP-6, GP-8, GP-10, GP-12, GP-18, and GP-22 ranged from 100 to 999 ppmv at depths ranging from 11 to 26 feet bgs.

Field screening results at soil boring locations: GP-2 and GP-17 ranged from 0 to 100 ppmv.

Field screening results at soil boring locations: GP-1, GP-3, GP-5, GP-9, GP-21, and GP-24 did not have detections. The locations and PID results for the completed direct push soil borings, previously-completed soil borings and monitoring wells are presented on Figure 1. Soil analytical results are shown in Figure 2.

PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will be conducted on a semi-annual basis, utilizing a selection of site monitoring wells which provides an adequate representation of site conditions.

A Work Plan will be submitted to the NMOCD for any additional activities to be completed at the Site in 2017. The 2017 Annual Report will be submitted in early 2018.

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TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	10/16/95	5080	1180	1050	9970
MW-1	12/12/95	4330	679	1010	8560
MW-1	04/09/96	5490	208	1100	7370
MW-1	07/17/96	6450	279	990	9060
MW-1	10/15/96	9870	840	1120	10900
MW-1	01/13/97	7760	332	914	10900
MW-1	04/22/97	2700	<1	492	6690
MW-1	07/14/97	3900	36.7	530	6700
MW-1	10/22/97	4270	48.7	728	8580
MW-1	01/09/98	4750	24.2	819	9480
MW-1	04/24/98	5610	44.7	898	9530
MW-1	04/16/99	7340	42.8	853	10600
MW-1	04/19/00	9400	510	4300	66000
MW-1	09/05/01	NS	NS	NS	NS
MW-1	09/11/01	NS	NS	NS	NS
MW-1	09/04/02	NS	NS	NS	NS
MW-1	12/10/02	NS	NS	NS	NS
MW-1	03/20/03	NS	NS	NS	NS
MW-1	06/19/03	NS	NS	NS	NS
MW-1	09/17/03	NS	NS	NS	NS
MW-1	12/09/03	NS	NS	NS	NS
MW-1	03/15/04	NS	NS	NS	NS
MW-1	09/15/04	NS	NS	NS	NS
MW-1	03/16/05	NS	NS	NS	NS
MW-1	09/19/05	4430	23.7	487	7370
MW-1	03/27/06	4410	26.6 J	337	7860
MW-1	09/26/06	5880	36.5	633	11000
MW-1	03/28/07	3740	<50	441	9210
MW-1	09/17/07	4640	93.3	444	8180
MW-1	03/04/08	NS	NS	NS	NS
MW-1	09/09/08	3230	<50	324	6780
MW-1	03/02/09	NS	NS	NS	NS
MW-1	08/27/09	2790	8.3 J	1190	12500
MW-1	02/11/10	NS	NS	NS	NS
MW-1	05/21/10	NS	NS	NS	NS
MW-1	09/29/10	2910	<50	1600	15000
MW-1	11/02/10	NS	NS	NS	NS
MW-1	02/02/11	NS	NS	NS	NS
MW-1	05/04/11	NS	NS	NS	NS
MW-1	09/30/11	1590	5 J	1120	10600
MW-1	11/11/11	NS	NS	NS	NS
MW-1	02/16/12	NS	NS	NS	NS
MW-1	05/08/12	NS	NS	NS	NS
MW-1	06/07/13	830	<60	1100	14000
MW-1	09/13/13	810	<60	960	3100
MW-1	12/13/13	600	25 J	730	2200
MW-1	04/03/14	330	28	<0.20	1400
MW-1	10/21/14	380	<7.0	<5.0	3000
MW-1	05/27/15	110	<100	1300	11000
MW-1	11/17/15	220	6.9	770	710
MW-1	04/15/16	110	<25	910	1000
MW-1	10/11/16	110	<25	460	100

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	12/12/95	175	<12.5	74.3	671
MW-2	04/09/96	39.2	<1	13.4	77.9
MW-2	07/17/96	9.55	<1	2.39	3.65
MW-2	10/15/96	49.7	<1	<1	38.4
MW-2	01/13/97	20.3	<1	<1	37.3
MW-2	04/22/97	19.4	<1	<1	29.8
MW-2	10/22/97	155	<1	12.6	204
MW-2	01/09/98	58	<1	3.85	207
MW-2	04/24/98	19.4	<1	<1	40.7
MW-2	02/09/99	19	<1	<1	48
MW-2	04/16/99	16.7	<1	<1	41
MW-2	04/19/00	23	0.5	<0.5	26
MW-2	09/11/01	110	<0.5	17	200
MW-2	09/04/02	269	7.4	48.9	482.4
MW-2	12/10/02	NS	NS	NS	NS
MW-2	06/19/03	NS	NS	NS	NS
MW-2	09/17/03	177	<1	41	343
MW-2	12/09/03	NS	NS	NS	NS
MW-2	03/15/04	NS	NS	NS	NS
MW-2	09/15/04	291	<0.5	48.9	431
MW-2	03/16/05	NS	NS	NS	NS
MW-2	09/19/05	126	<1	9.5	231
MW-2	03/27/06	NS	NS	NS	NS
MW-2	09/26/06	95.8	<1	5.5	189
MW-2	03/28/07	NS	NS	NS	NS
MW-2	09/17/07	317	<1	12.5	354
MW-2	03/04/08	NS	NS	NS	NS
MW-2	09/09/08	34.3	<1	1.1	71.9
MW-2	03/02/09	NS	NS	NS	NS
MW-2	08/27/09	26.6	1.3	1.6	9
MW-2	02/11/10	NS	NS	NS	NS
MW-2	05/21/10	NS	NS	NS	NS
MW-2	09/29/10	100	<2	J1.5	34.8
MW-2	11/02/10	NS	NS	NS	NS
MW-2	02/02/11	NS	NS	NS	NS
MW-2	05/04/11	NS	NS	NS	NS
MW-2	09/30/11	26.6	<1	1	9.5
MW-2	11/11/11	NS	NS	NS	NS
MW-2	02/16/12	NS	NS	NS	NS
MW-2	05/08/12	NS	NS	NS	NS
MW-2	06/07/13	200	<0.30	4.4	21
MW-2	09/13/13	120	<0.30	17	150
MW-2	12/13/13	27	3	5.5	74
MW-2	04/03/14	120	3.2 J	12	190
MW-2	10/21/14	0.64 J	<0.70	<0.50	<1.6
MW-2	05/27/15	190	2.5 J	18	59
MW-2	11/17/15	34	<1.0	<1.0	<3.0
MW-2	04/15/16	7.8	<5.0	<1.0	<5.0
MW-2	10/11/16	2	<5.0	<1.0	<5.0

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	12/12/95	979	<125	398	2540
MW-3	04/09/96	328	<1	132	369
MW-3	07/17/96	299	<1	76.7	251
MW-3	01/13/97	395	<1	126	955
MW-3	07/14/97	499	<1	104	583
MW-3	10/22/97	817	7.22	141	869
MW-3	01/09/98	702	<1	185	1080
MW-3	04/24/98	377	11.8	126	525
MW-3	04/16/99	191	4.11	18.1	169
MW-3	04/19/00	40	0.6	1.1	28
MW-3	09/05/01	NS	NS	NS	NS
MW-3	09/11/01	NS	NS	NS	NS
MW-3	09/04/02	NS	NS	NS	NS
MW-3	12/10/02	NS	NS	NS	NS
MW-3	06/19/03	NS	NS	NS	NS
MW-3	09/17/03	NS	NS	NS	NS
MW-3	12/09/03	NS	NS	NS	NS
MW-3	03/15/04	NS	NS	NS	NS
MW-3	09/15/04	NS	NS	NS	NS
MW-3	03/16/05	NS	NS	NS	NS
MW-3	09/19/05	73.8	<1	5.2	158
MW-3	03/27/06	NS	NS	NS	NS
MW-3	09/26/06	3370	25	498	3960
MW-3	03/28/07	NS	NS	NS	NS
MW-3	09/17/07	288	<1	65.4	599
MW-3	03/04/08	NS	NS	NS	NS
MW-3	09/09/08	805	3.3	160	1630
MW-3	03/02/09	NS	NS	NS	NS
MW-3	08/27/09	2490	<25	842	6560
MW-3	02/11/10	NS	NS	NS	NS
MW-3	05/21/10	NS	NS	NS	NS
MW-3	09/29/10	2710	<50	1390	10600
MW-3	11/02/10	NS	NS	NS	NS
MW-3	02/02/11	NS	NS	NS	NS
MW-3	05/04/11	NS	NS	NS	NS
MW-3	09/30/11	1410	5.8 J	1280	12600
MW-3	11/11/11	NS	NS	NS	NS
MW-3	02/16/12	NS	NS	NS	NS
MW-3	05/08/12	NS	NS	NS	NS
MW-3	06/07/13	760	<0.30	1700	19000
MW-3	09/13/13	770	<0.30	1400	11000
MW-3	12/13/13	610	<38	960	9200
MW-3	04/03/14	670	<19	890	10000
MW-3	10/21/14	250	<35	990	10000
MW-3	05/27/15	52	<100	1400	4700
MW-3	11/17/15	44	5.2	1400	1100
MW-3	04/15/16	NS	NS	NS	NS
MW-3	10/11/16	NS	NS	NS	NS

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Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-4	12/12/95	90.1	<12.5	16.8	144
MW-4	04/09/96	63.1	<1	<1	42.5
MW-4	07/17/96	35	<1	<1	17.8
MW-4	10/15/96	53.5	<1	<1	28.4
MW-4	01/13/97	56.2	<1	<1	48.4
MW-4	04/22/97	32.8	<1	<1	15.2
MW-4	07/14/97	10.4	<1	<1	5.79
MW-4	10/22/97	215	<1	5.5	184
MW-4	01/09/98	114	<1	2.66	85.7
MW-4	04/24/98	55.4	<1	<1	19.3
MW-4	04/16/99	129	<1	2.03	87.3
MW-4	04/19/00	110	6.5	17	140
MW-4	09/11/01	140	<0.5	9.6	110
MW-4	09/04/02	261	3.1	20.1	246.5
MW-4	12/10/02	NS	NS	NS	NS
MW-4	06/19/03	NS	NS	NS	NS
MW-4	09/17/03	192	<1	26.3	194
MW-4	12/09/03	NS	NS	NS	NS
MW-4	03/15/04	NS	NS	NS	NS
MW-4	09/15/04	182	<0.5	9.8	161
MW-4	03/16/05	NS	NS	NS	NS
MW-4	09/19/05	199	<1	53.8	416
MW-4	03/27/06	NS	NS	NS	NS
MW-4	09/26/06	180	12.5	55.9	417
MW-4	03/28/07	NS	NS	NS	NS
MW-4	09/17/07	272	4.7	21.3	236
MW-4	03/04/08	NS	NS	NS	NS
MW-4	09/09/08	265	0.94 J	26.5	274
MW-4	03/02/09	NS	NS	NS	NS
MW-4	08/27/09	NS	NS	NS	NS
MW-4	09/23/09	2110	12.6 J	676	6440
MW-4	10/19/09	NS	NS	NS	NS
MW-4	11/05/09	NS	NS	NS	NS
MW-4	12/21/09	NS	NS	NS	NS
MW-4	02/11/10	NS	NS	NS	NS
MW-4	05/21/10	NS	NS	NS	NS
MW-4	09/29/10	1400	<50	1020	6410
MW-4	11/02/10	NS	NS	NS	NS
MW-4	02/02/11	NS	NS	NS	NS
MW-4	05/04/11	NS	NS	NS	NS
MW-4	09/30/11	534	<10	1800	9510
MW-4	11/11/11	NS	NS	NS	NS
MW-4	02/16/12	NS	NS	NS	NS
MW-4	05/08/12	NS	NS	NS	NS
MW-4	06/07/13	2700	<0.30	900	12000
MW-4	09/13/13	NS	NS	NS	NS
MW-4	12/13/13	NS	NS	NS	NS
MW-4	04/03/14	NS	NS	NS	NS
MW-4	10/21/14	NS	NS	NS	NS
MW-4	05/27/15	NS	NS	NS	NS
MW-4	11/17/15	NS	NS	NS	NS
MW-4	04/15/16	15	<5.0	8.7	510
MW-4	10/11/16	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	11/15/00	<0.5	<0.5	<0.5	<0.5
MW-5	09/11/01	<0.5	<0.5	<0.5	0.6
MW-5	09/04/02	<0.5	0.3	0.9	1.4
MW-5	12/10/02	NS	NS	NS	NS
MW-5	06/19/03	NS	NS	NS	NS
MW-5	09/17/03	NS	NS	NS	NS
MW-5	12/09/03	NS	NS	NS	NS
MW-5	03/15/04	NS	NS	NS	NS
MW-5	09/15/04	NS	NS	NS	NS
MW-5	03/16/05	NS	NS	NS	NS
MW-5	09/19/05	NS	NS	NS	NS
MW-5	03/28/07	NS	NS	NS	NS
MW-5	09/17/07	NS	NS	NS	NS
MW-5	03/04/08	NS	NS	NS	NS
MW-5	09/09/08	NS	NS	NS	NS
MW-5	03/02/09	NS	NS	NS	NS
MW-5	08/27/09	NS	NS	NS	NS
MW-5	02/11/10	NS	NS	NS	NS
MW-5	05/21/10	NS	NS	NS	NS
MW-5	09/29/10	34.1	<2	<2	2.7 J
MW-5	11/02/10	NS	NS	NS	NS
MW-5	02/02/11	NS	NS	NS	NS
MW-5	05/04/11	NS	NS	NS	NS
MW-5	09/30/11	<1	<1	<1	1.2 J
MW-5	11/11/11	NS	NS	NS	NS
MW-5	02/16/12	NS	NS	NS	NS
MW-5	05/08/12	NS	NS	NS	NS
MW-5	06/07/13	<0.14	<0.30	<0.20	<0.23
MW-5	09/13/13	<0.14	<0.30	<0.20	<0.23
MW-5	12/13/13	<0.20	<0.38	<0.20	0.68 J
MW-5	04/03/14	<0.20	<0.38	<0.20	<0.65
MW-5	10/21/14	<0.38	<0.70	<0.50	<1.6
MW-5	05/27/15	<1.0	<5.0	<1.0	<5.0
MW-5	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-5	04/15/16	NS	NS	NS	NS
MW-5	10/11/16	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-6	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-6	04/15/16	NS	NS	NS	NS
MW-6	10/11/16	NS	NS	NS	NS
MW-7	11/17/15	18	<1.0	38	100
MW-7	04/15/16	7.8	<10	4.3	48
MW-7	10/11/16	81	<10	320	1700
MW-8	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-8	04/15/16	<1.0	<5.0	<1.0	<5.0
MW-8	10/11/16	<1.0	<5.0	<1.0	<5.0
MW-9	11/17/15	1.1	<1.0	<1.0	<3.0
MW-9	04/15/16	NS	NS	NS	NS
MW-9	10/11/16	NS	NS	NS	NS
MW-10	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-10	04/15/16	NS	NS	NS	NS
MW-10	10/11/16	NS	NS	NS	NS
MW-11	11/17/15	2000	3.7	800	1600
MW-11	04/15/16	410	<50	32	54
MW-11	10/11/16	1100	<100	280	2000
MW-12	11/17/15	19	<1.0	12	90
MW-12	04/15/16	NS	NS	NS	NS
MW-12	10/11/16	NS	NS	NS	NS
MW-13	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-13	04/15/16	NS	NS	NS	NS
MW-13	10/11/16	NS	NS	NS	NS
PH-1	02/25/97	1.21	<1	3.42	35.9
PH-2	02/25/97	<1	<1	<1	<3
PH-3	02/25/97	<1	<1	<1	<3
PH-4	02/25/97	<1	<1	<1	<3

Notes:
 "µg/L" = micrograms per liter
 Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.
 "*J*" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result is an approximate value.
 "<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).
 "NS" = Monitoring well not sampled.

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	10/16/95	5512.35	26.03	NR		5486.32
MW-1	12/12/95	5512.35	25.91	NR		5486.44
MW-1	04/09/96	5512.35	26.71	26.34	0.37	5485.92
MW-1	07/17/96	5512.35	25.39	25.35	0.04	5486.99
MW-1	10/15/96	5512.35	27.35	26.60	0.75	5485.56
MW-1	01/13/97	5512.35	26.53	NR		5485.82
MW-1	04/22/97	5512.35	26.23	NR		5486.12
MW-1	07/14/97	5512.35	25.25	NR		5487.10
MW-1	10/22/97	5512.35	26.22	NR		5486.13
MW-1	01/09/98	5512.35	25.82	NR		5486.53
MW-1	04/24/98	5512.35	26.01	25.87	0.14	5486.44
MW-1	04/16/99	5512.35	26.52	26.40	0.12	5485.92
MW-1	04/19/00	5512.35	27.14	27.07	0.07	5485.26
MW-1	09/05/01	5512.35	28.32	27.93	0.39	5484.32
MW-1	09/11/01	5512.35	28.10	28.05	0.05	5484.29
MW-1	09/04/02	5512.35	28.39	28.31	0.08	5484.02
MW-1	12/10/02	5512.35	28.47	28.31	0.16	5484.00
MW-1	03/20/03	5512.35	28.14	28.05	0.09	5484.28
MW-1	06/19/03	5512.35	28.02	28.00	0.02	5484.34
MW-1	09/17/03	5512.35	28.97	28.95	0.02	5483.39
MW-1	12/09/03	5512.35	28.32	28.30	0.02	5484.04
MW-1	03/15/04	5512.35	27.99	27.89	0.10	5484.43
MW-1	09/15/04	5512.35	28.78	28.77	0.01	5483.58
MW-1	03/16/05	5512.35	28.12	ND		5484.68
MW-1	09/19/05	5512.35	27.47	ND		5484.88
MW-1	03/27/06	5512.35	26.49	ND		5485.86
MW-1	09/26/06	5512.35	25.91	ND		5486.44
MW-1	03/28/07	5512.35	25.87	ND		5486.48
MW-1	09/17/07	5512.35	26.94	ND		5485.41
MW-1	03/04/08	5512.35	25.70	ND		5486.65
MW-1	09/09/08	5512.35	26.68	ND		5485.67
MW-1	03/02/09	5512.35	24.71	ND		5487.64
MW-1	08/27/09	5512.35	24.30	ND		5488.05
MW-1	02/11/10	5512.35	24.83	ND		5487.52
MW-1	05/21/10	5512.35	23.54	ND		5488.81
MW-1	09/29/10	5512.35	24.33	ND		5488.02
MW-1	11/02/10	5512.35	22.31	ND		5490.04
MW-1	02/02/11	5512.35	23.62	ND		5488.73
MW-1	05/04/11	5512.35	22.50	ND		5489.85
MW-1	09/30/11	5512.35	22.26	ND		5490.09
MW-1	11/11/11	5512.35	22.87	ND		5489.48
MW-1	02/16/12	5512.35	24.01	ND		5488.34
MW-1	05/08/12	5512.35	22.01	ND		5490.34
MW-1	06/07/13	5512.35	21.73	ND		5490.62
MW-1	09/13/13	5512.35	26.75	ND		5485.60
MW-1	12/13/13	5512.35	26.45	ND		5485.90
MW-1	04/03/14	5512.35	25.71	ND		5486.64
MW-1	10/21/14	5512.35	25.88	ND		5486.47
MW-1	05/27/15	5512.35	19.29	ND		5493.06
MW-1	11/17/15	5512.35	22.76	ND		5489.59
MW-1	04/15/16	5512.35	23.54	ND		5488.81
MW-1	10/11/16	5512.35	21.69	ND		5490.66

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	12/12/95	5511.65	25.37	NR		5486.28
MW-2	04/09/96	5511.65	25.58	NR		5486.07
MW-2	07/17/96	5511.65	25.09	NR		5486.56
MW-2	10/15/96	5511.65	26.36	NR		5485.29
MW-2	01/13/97	5511.65	26.05	NR		5485.60
MW-2	04/22/97	5511.65	25.82	NR		5485.83
MW-2	10/22/97	5511.65	25.86	NR		5485.79
MW-2	01/09/98	5511.65	25.50	NR		5486.15
MW-2	04/24/98	5511.65	25.60	NR		5486.05
MW-2	02/09/99	5511.65	26.05	NR		5485.60
MW-2	04/16/99	5511.65	26.16	NR		5485.49
MW-2	04/19/00	5511.65	25.92	NR		5485.73
MW-2	09/11/01	5511.65	27.60	NR		5484.05
MW-2	09/04/02	5511.65	27.88	NR		5483.77
MW-2	12/10/02	5511.65	27.90	NR		5483.75
MW-2	06/19/03	5511.65	27.46	ND		5484.19
MW-2	09/17/03	5511.65	28.42	ND		5483.23
MW-2	12/09/03	5511.65	27.87	ND		5483.78
MW-2	03/15/04	5511.65	27.55	ND		5484.10
MW-2	09/15/04	5511.65	28.25	ND		5483.40
MW-2	03/16/05	5511.65	27.30	ND		5484.35
MW-2	09/19/05	5511.65	26.80	ND		5484.85
MW-2	03/27/06	5511.65	26.18	ND		5485.47
MW-2	09/26/06	5511.65	25.66	ND		5485.99
MW-2	03/28/07	5511.65	25.58	ND		5486.07
MW-2	09/17/07	5511.65	26.63	ND		5485.02
MW-2	03/04/08	5511.65	25.47	ND		5486.18
MW-2	09/09/08	5511.65	26.30	ND		5485.35
MW-2	03/02/09	5511.65	24.46	ND		5487.19
MW-2	08/27/09	5511.65	24.00	ND		5487.65
MW-2	02/11/10	5511.65	24.45	ND		5487.20
MW-2	05/21/10	5511.65	23.21	ND		5488.44
MW-2	09/29/10	5511.65	23.00	ND		5488.65
MW-2	11/02/10	5511.65	22.03	ND		5489.62
MW-2	02/02/11	5511.65	23.41	ND		5488.24
MW-2	05/04/11	5511.65	22.67	ND		5488.98
MW-2	09/30/11	5511.65	21.75	ND		5489.90
MW-2	11/11/11	5511.65	22.59	ND		5489.06
MW-2	02/16/12	5511.65	23.72	ND		5487.93
MW-2	05/08/12	5511.65	21.99	ND		5489.66
MW-2	06/07/13	5511.65	22.88	ND		5488.77
MW-2	09/13/13	5511.65	26.49	ND		5485.16
MW-2	12/13/13	5511.65	26.18	ND		5485.47
MW-2	04/03/14	5511.65	25.43	ND		5486.22
MW-2	10/21/14	5511.65	25.62	ND		5486.03
MW-2	05/27/15	5511.65	20.41	ND		5491.24
MW-2	11/17/15	5511.65	22.57	ND		5489.08
MW-2	04/15/16	5511.65	23.23	ND		5488.42
MW-2	10/11/16	5511.65	21.33	ND		5490.32

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	12/12/95	5512.19	25.67	NR		5486.52
MW-3	04/09/96	5512.19	25.78	NR		5486.41
MW-3	07/17/96	5512.19	25.15	NR		5487.04
MW-3	01/13/97	5512.19	26.41	26.25	0.16	5485.90
MW-3	07/14/97	5512.19	25.21	NR		5486.98
MW-3	10/22/97	5512.19	26.01	NR		5486.18
MW-3	01/09/98	5512.19	25.69	NR		5486.50
MW-3	04/24/98	5512.19	25.76	NR		5486.43
MW-3	04/16/99	5512.19	26.30	NR		5485.89
MW-3	04/19/00	5512.19	26.75	NR		5485.44
MW-3	09/05/01	5512.19	27.91	27.84	0.07	5484.33
MW-3	09/11/01	5512.19	27.91	27.89	0.02	5484.29
MW-3	09/04/02	5512.19	28.17	28.16	0.01	5484.03
MW-3	12/10/02	5512.19	28.20	28.17	0.03	5484.01
MW-3	06/19/03	5512.19	27.81	ND		5484.38
MW-3	09/17/03	5512.19	28.79	28.76	0.03	5483.42
MW-3	12/09/03	5512.19	28.11	ND		5484.08
MW-3	03/15/04	5512.19	27.78	ND		5484.41
MW-3	09/15/04	5512.19	28.60	ND		5483.59
MW-3	03/16/05	5512.19	27.48	ND		5484.71
MW-3	09/19/05	5512.19	27.16	ND		5485.03
MW-3	03/27/06	5512.19	26.34	ND		5485.85
MW-3	09/26/06	5512.19	25.83	ND		5486.36
MW-3	03/28/07	5512.19	25.71	ND		5486.48
MW-3	09/17/07	5512.19	26.85	ND		5485.34
MW-3	03/04/08	5512.19	25.55	ND		5486.64
MW-3	09/09/08	5512.19	25.62	ND		5486.57
MW-3	03/02/09	5512.19	24.55	ND		5487.64
MW-3	08/27/09	5512.19	24.13	ND		5488.06
MW-3	02/11/10	5512.19	24.67	ND		5487.52
MW-3	05/21/10	5512.19	23.40	ND		5488.79
MW-3	09/29/10	5512.19	23.42	ND		5488.77
MW-3	11/02/10	5512.19	22.20	ND		5489.99
MW-3	02/02/11	5512.19	23.44	ND		5488.75
MW-3	05/04/11	5512.19	22.37	ND		5489.82
MW-3	09/30/11	5512.19	21.94	ND		5490.25
MW-3	11/11/11	5512.19	22.75	ND		5489.44
MW-3	02/16/12	5512.19	23.85	ND		5488.34
MW-3	05/08/12	5512.19	21.90	ND		5490.29
MW-3	06/07/13	5512.19	21.61	ND		5490.58
MW-3	09/13/13	5512.19	26.71	ND		5485.48
MW-3	12/13/13	5512.19	26.31	ND		5485.88
MW-3	04/03/14	5512.19	25.55	ND		5486.64
MW-3	10/21/14	5512.19	25.73	ND		5486.46
MW-3	05/27/15	5512.19	19.02	ND		5493.17
MW-3	11/17/15	5512.19	22.61	ND		5489.58
MW-3	04/15/16	5512.19	23.37	ND		5488.82
MW-3	10/11/16	5512.19	21.54	ND		5490.65

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	12/12/95	5512.86	26.27	NR		5486.59
MW-4	04/09/96	5512.86	26.40	NR		5486.46
MW-4	07/17/96	5512.86	25.77	NR		5487.09
MW-4	10/15/96	5512.86	27.26	NR		5485.60
MW-4	01/13/97	5512.86	26.96	NR		5485.90
MW-4	04/22/97	5512.86	26.69	NR		5486.17
MW-4	07/14/97	5512.86	25.78	NR		5487.08
MW-4	10/22/97	5512.86	26.72	NR		5486.14
MW-4	01/09/98	5512.86	26.34	NR		5486.52
MW-4	04/24/98	5512.86	26.44	NR		5486.42
MW-4	04/16/99	5512.86	26.97	NR		5485.89
MW-4	04/19/00	5512.86	26.09	NR		5486.77
MW-4	09/11/01	5512.86	28.48	NR		5484.38
MW-4	09/04/02	5512.86	28.76	NR		5484.10
MW-4	12/10/02	5512.86	28.80	NR		5484.06
MW-4	06/19/03	5512.86	28.43	ND		5484.43
MW-4	09/17/03	5512.86	29.36	ND		5483.50
MW-4	12/09/03	5512.86	28.73	ND		5484.13
MW-4	03/15/04	5512.86	28.42	ND		5484.44
MW-4	09/15/04	5512.86	29.20	ND		5483.66
MW-4	03/16/05	5512.86	28.12	ND		5484.74
MW-4	09/19/05	5512.86	27.74	ND		5485.12
MW-4	03/27/06	5512.86	26.87	ND		5485.99
MW-4	09/26/06	5512.86	26.45	ND		5486.41
MW-4	03/28/07	5512.86	26.34	ND		5486.52
MW-4	09/17/07	5512.86	27.44	ND		5485.42
MW-4	03/04/08	5512.86	26.23	ND		5486.63
MW-4	09/09/08	5512.86	26.15	ND		5486.71

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	03/02/09	5512.86	25.19	ND		5487.67
MW-4	08/27/09	5512.86	27.10	24.13	2.97	5487.99
MW-4	09/23/09	5512.86	26.15	25.35	0.80	5487.31
MW-4	10/19/09	5512.86	25.70	25.15	0.55	5487.57
MW-4	11/05/09	5512.86	25.95	25.69	0.26	5487.10
MW-4	12/21/09	5512.86	26.05	25.85	0.20	5486.96
MW-4	02/11/10	5512.86	25.40	25.28	0.12	5487.55
MW-4	05/21/10	5512.86	24.05	24.03	0.02	5488.82
MW-4	09/29/10	5512.86	25.05	23.35	1.70	5489.08
MW-4	11/02/10	5512.86	23.38	22.74	0.64	5489.96
MW-4	02/02/11	5512.86	24.37	24.18	0.19	5488.63
MW-4	05/04/11	5512.86	22.13	ND		5490.73
MW-4	09/30/11	5512.86	24.52	21.85	2.67	5490.34
MW-4	11/11/11	5512.86	23.74	23.40	0.34	5489.37
MW-4	02/16/12	5512.86	24.68	ND		5488.18
MW-4	05/08/12	5512.86	22.46	22.44	0.02	5490.41
MW-4	06/07/13	5512.86	24.76	23.75	1.01	5488.86
MW-4	09/13/13	5512.86	28.84	27.07	1.77	5485.35
MW-4	12/13/13	5512.86	27.30	26.78	0.52	5485.95
MW-4	04/03/14	5512.86	26.43	26.07	0.36	5486.70
MW-4	10/21/14	5512.86	27.02	26.14	0.88	5486.50
MW-4	05/27/15	5512.86	20.58	20.58		5492.28
MW-4	11/17/15	5512.86	23.64	23.07	0.57	5489.65
MW-4	04/15/16	5512.86	23.96	ND		5488.90
MW-4	10/11/16	5512.86	22.55	21.93	0.62	5490.77

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	11/15/00	5510.04	25.62	NR		5484.42
MW-5	09/11/01	5510.04	25.94	NR		5484.10
MW-5	09/04/02	5510.04	26.21	NR		5483.83
MW-5	12/10/02	5510.04	26.11	NR		5483.93
MW-5	06/19/03	5510.04	25.80	ND		5484.24
MW-5	09/17/03	5510.04	26.67	ND		5483.37
MW-5	12/09/03	5510.04	25.88	ND		5484.16
MW-5	03/15/04	5510.04	25.52	ND		5484.52
MW-5	09/15/04	5510.04	26.60	ND		5483.44
MW-5	03/16/05	5510.04	25.21	ND		5484.83
MW-5	09/19/05	5510.04	25.20	ND		5484.84
MW-5	03/28/07	5510.04	23.54	ND		5486.50
MW-5	09/17/07	5510.04	24.87	ND		5485.17
MW-5	03/04/08	5510.04	23.28	ND		5486.76
MW-5	09/09/08	5510.04	23.69	ND		5486.35
MW-5	03/02/09	5510.04	22.52	ND		5487.52
MW-5	08/27/09	5510.04	22.51	ND		5487.53
MW-5	02/11/10	5510.04	22.74	ND		5487.30
MW-5	05/21/10	5510.04	21.43	ND		5488.61
MW-5	09/29/10	5510.04	21.33	ND		5488.71
MW-5	11/02/10	5510.04	20.48	ND		5489.56
MW-5	02/02/11	5510.04	20.52	ND		5489.52
MW-5	05/04/11	5510.04	20.66	ND		5489.38
MW-5	09/30/11	5510.04	20.24	ND		5489.80
MW-5	11/11/11	5510.04	21.89	ND		5488.15
MW-5	02/16/12	5510.04	21.85	ND		5488.19
MW-5	05/08/12	5510.04	19.79	ND		5490.25
MW-5	06/07/13	5510.04	20.70	ND		5489.34
MW-5	09/13/13	5510.04	24.68	ND		5485.36
MW-5	12/13/13	5510.04	24.13	ND		5485.91
MW-5	04/03/14	5510.04	23.42	ND		5486.62
MW-5	10/21/14	5510.04	23.72	ND		5486.32
MW-5	05/27/15	5510.04	17.17	ND		5492.87
MW-5	11/17/15	5510.04	20.74	ND		5489.30
MW-5	04/15/16	5510.04	21.35	ND		5488.69
MW-5	10/11/16	5510.04	19.74	ND		5490.30

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-6	11/17/15	5510.36	21.31	ND		5489.05
MW-6	04/15/16	5510.36	21.90	ND		5488.46
MW-6	10/11/16	5510.36	20.22	ND		5490.14
MW-7	11/17/15	5511.16	21.77	ND		5489.39
MW-7	04/15/16	5511.16	22.43	ND		5488.73
MW-7	10/11/16	5511.16	20.68	ND		5490.48
MW-8	11/17/15	5511.95	22.21	ND		5489.74
MW-8	04/15/16	5511.95	22.94	ND		5489.01
MW-8	10/11/16	5511.95	21.25	ND		5490.70
MW-9	11/17/15	5513.44	23.49	ND		5489.95
MW-9	04/15/16	5513.44	24.29	ND		5489.15
MW-9	10/11/16	5513.44	22.48	ND		5490.96
MW-10	11/17/15	5513.72	24.06	ND		5489.66
MW-10	04/15/16	5513.72	24.84	ND		5488.88
MW-10	10/11/16	5513.72	22.87	ND		5490.85
MW-11	11/17/15	5513.41	23.91	ND		5489.50
MW-11	04/15/16	5513.41	24.73	ND		5488.68
MW-11	10/11/16	5513.41	22.66	ND		5490.75
MW-12	11/17/15	5511.47	22.40	ND		5489.07
MW-12	04/15/16	5511.47	23.05	ND		5488.42
MW-12	10/11/16	5511.47	21.13	ND		5490.34
MW-13	11/17/15	5509.07	20.26	ND		5488.81
MW-13	04/15/16	5509.07	20.83	ND		5488.24
MW-13	10/11/16	5509.07	19.01	ND		5490.06

Notes:

"ft" = feet

"TOC" = Top of casing

"LNAPL" = Light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = LNAPL not recorded

No water level data recorded for the geoprobe (PH) points completed on February 25, 1997.

FIGURES

FIGURE 1: MARCH 13, 2016 SOIL BORING LOCATIONS AND PID RESULTS

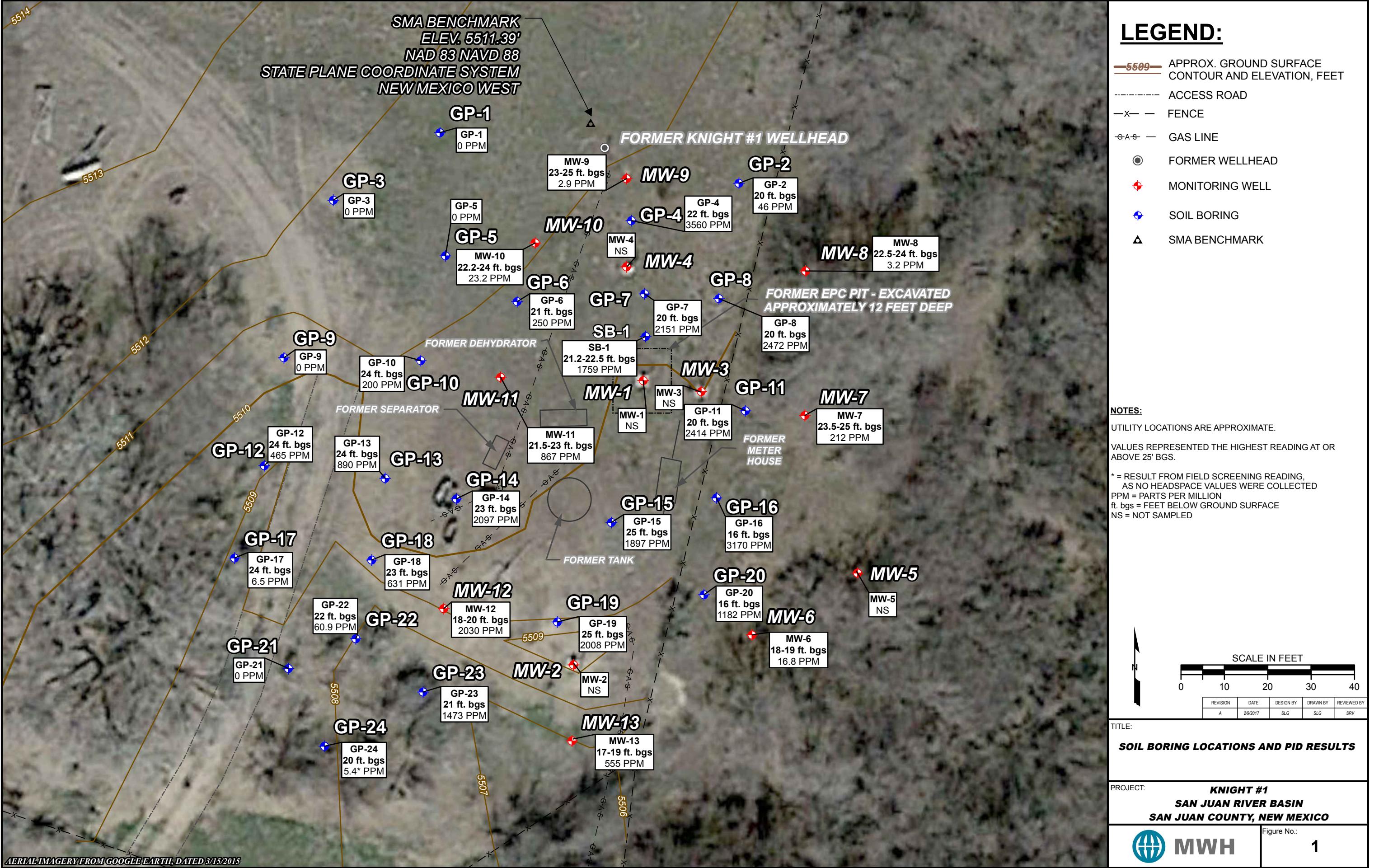
FIGURE 2: HISTORICAL SOIL ANALYTICAL RESULTS

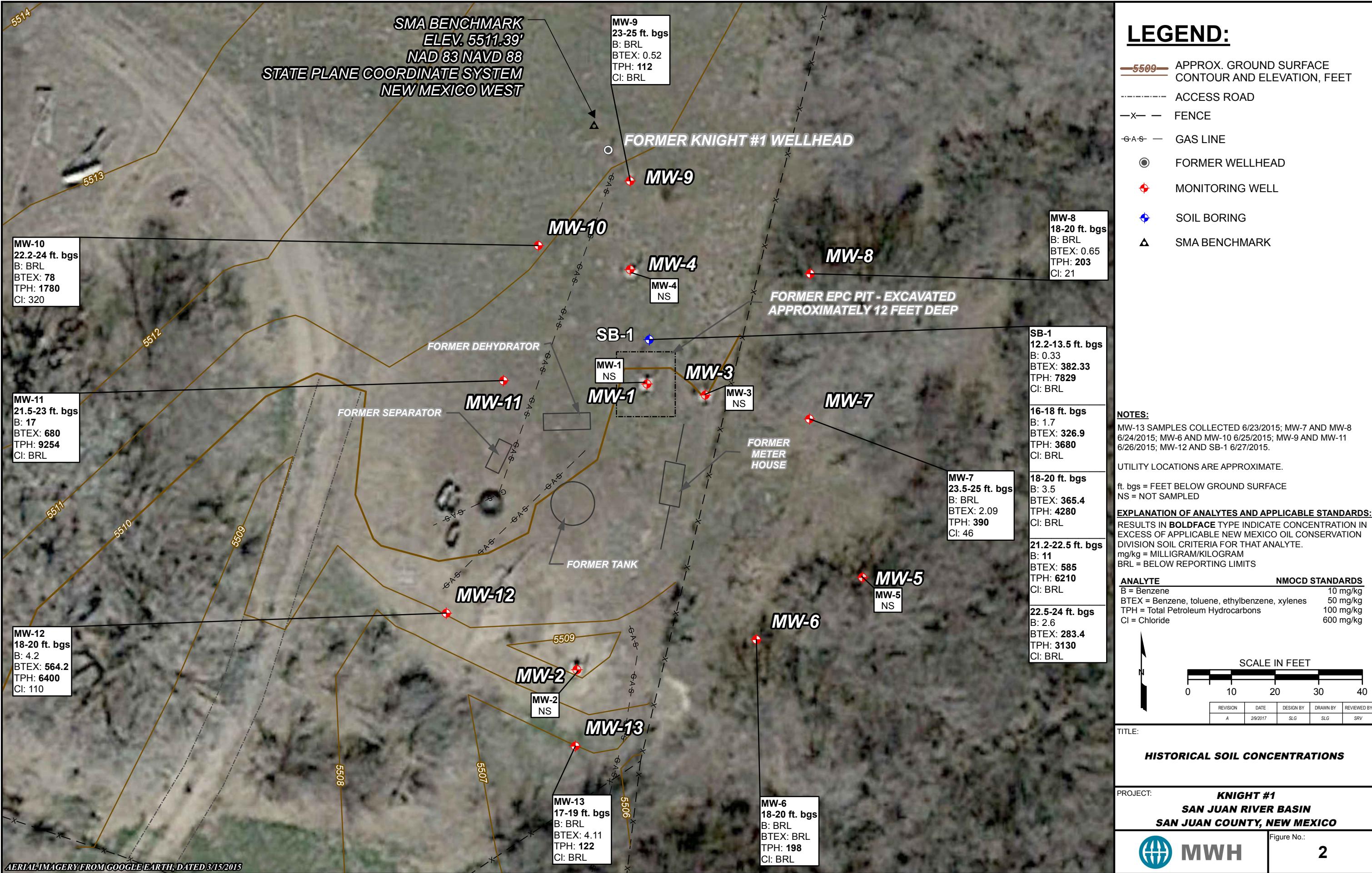
FIGURE 3: APRIL 15, 2016 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 4: APRIL 15, 2016 GROUNDWATER ELEVATION MAP

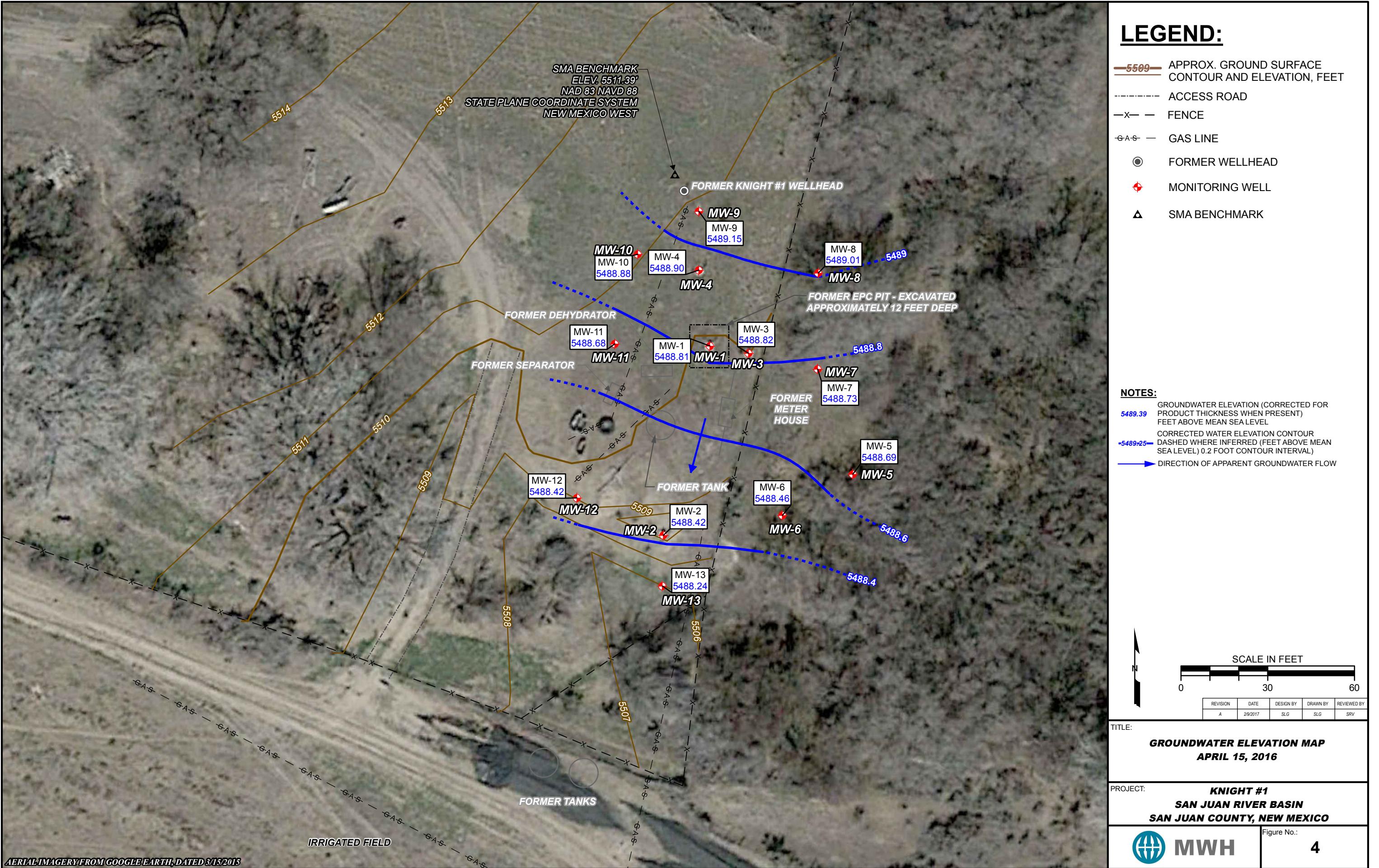
FIGURE 5: OCTOBER 11, 2016 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 6: OCTOBER 11, 2016 GROUNDWATER ELEVATION MAP

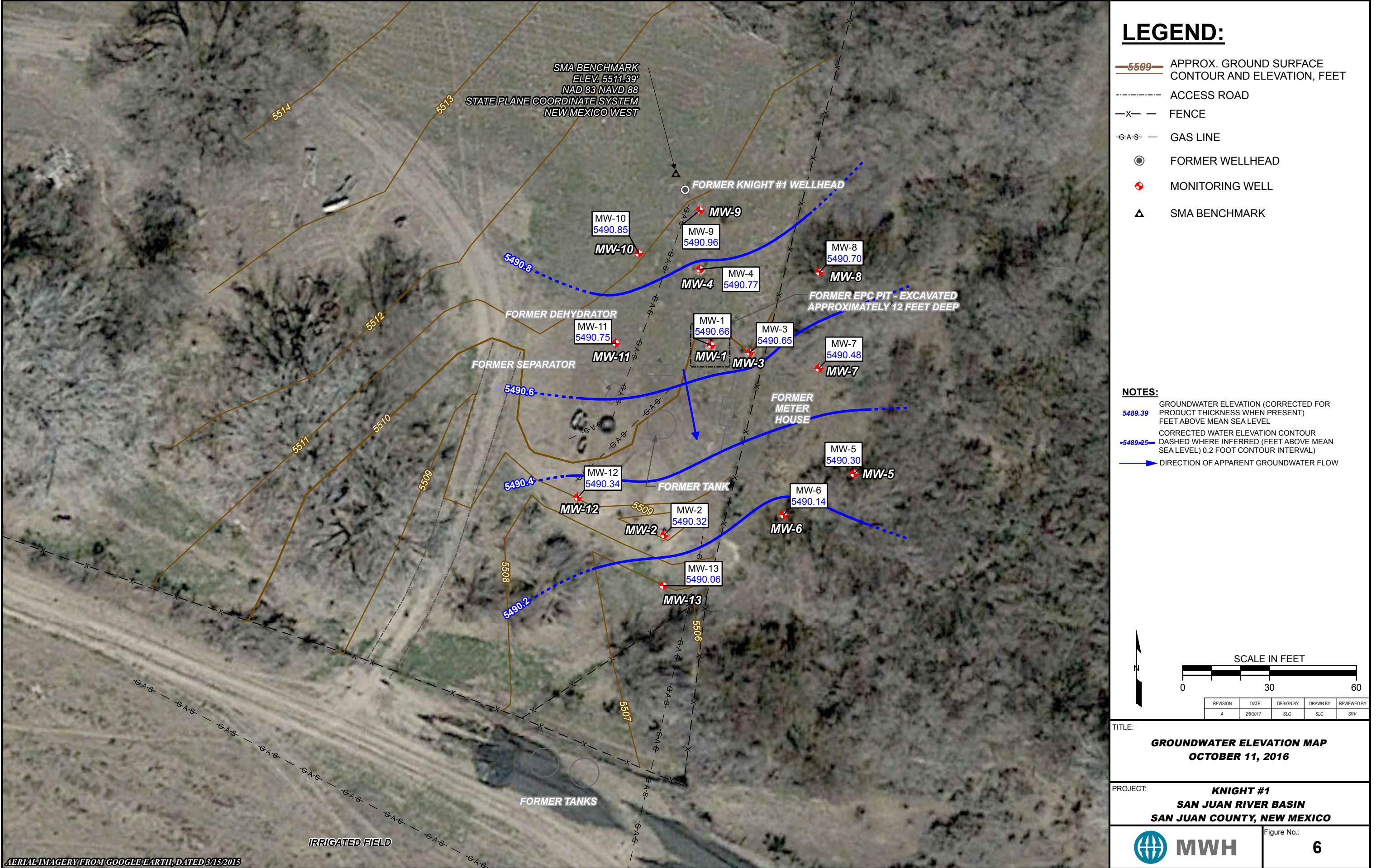












APPENDIX A



MWH

Drilling Log

Soil Boring

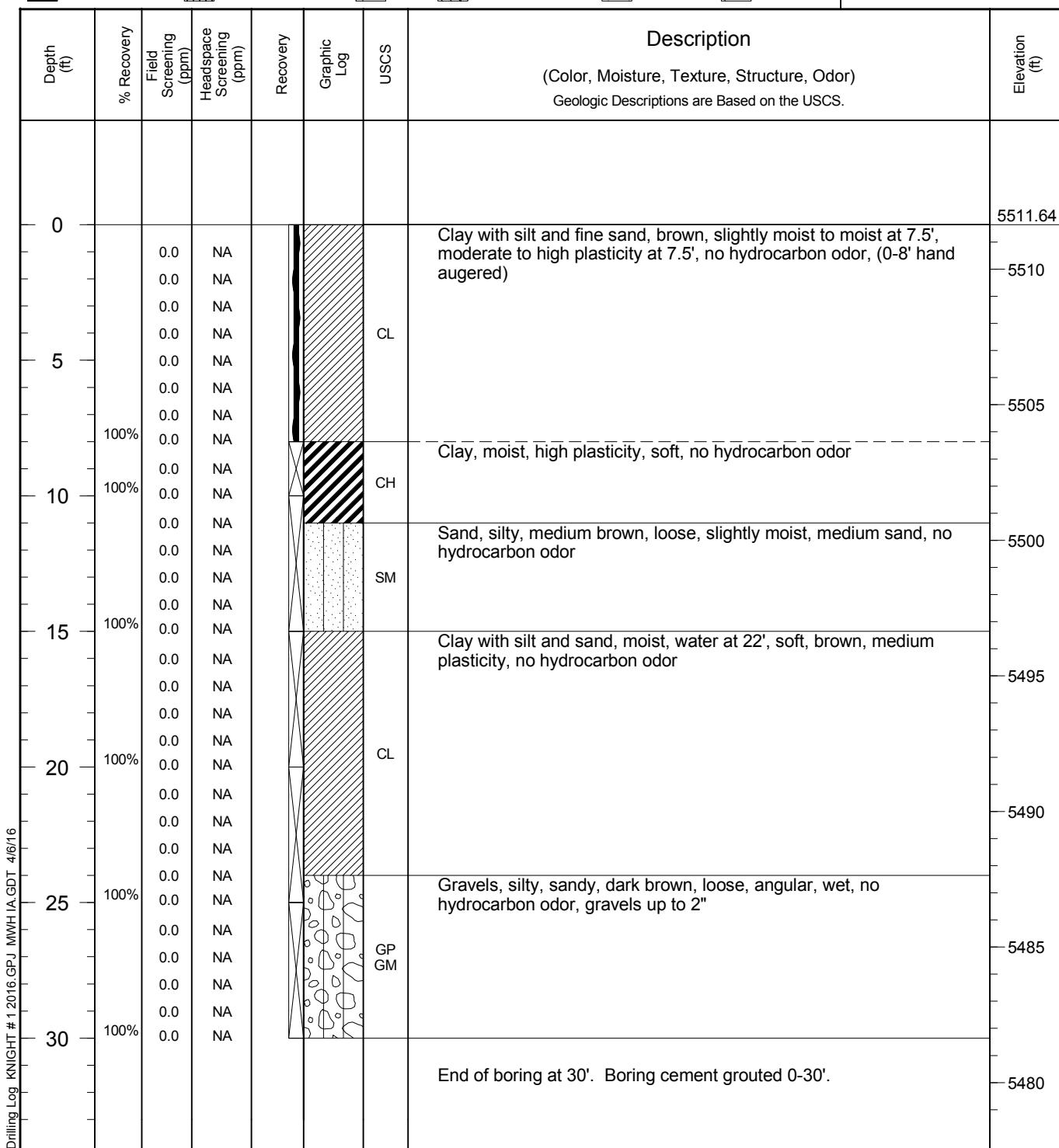
GP-1

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5511.64 ft North 2127844 East 2609245
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/7/2016 Completion Date 3/8/2016 Checked By Steve Varsa

Bentonite Grout
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

COMMENTS
 Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

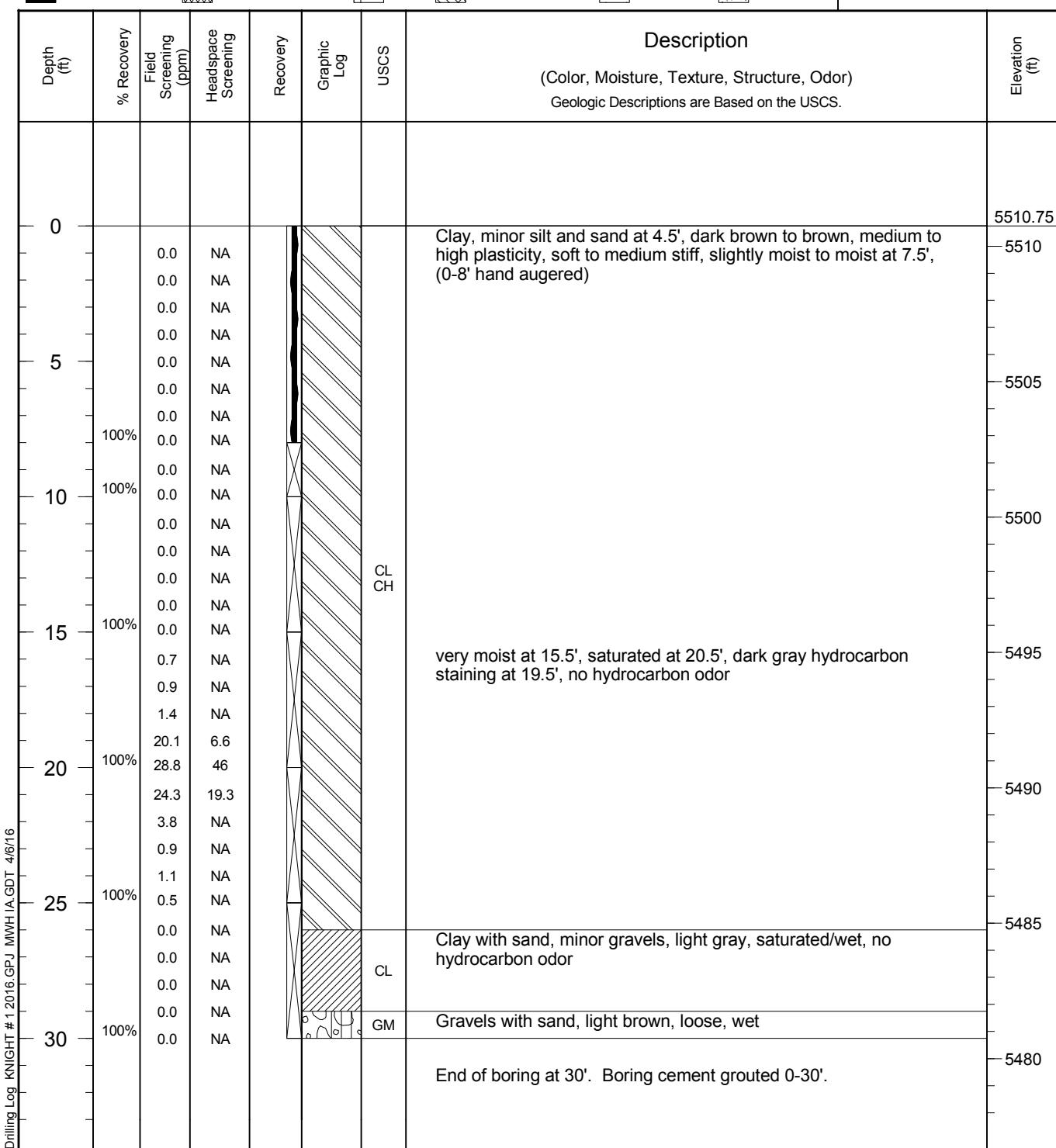
GP-2

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5510.75 ft North 2127832 East 2609314
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/10/2016 Completion Date 3/10/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

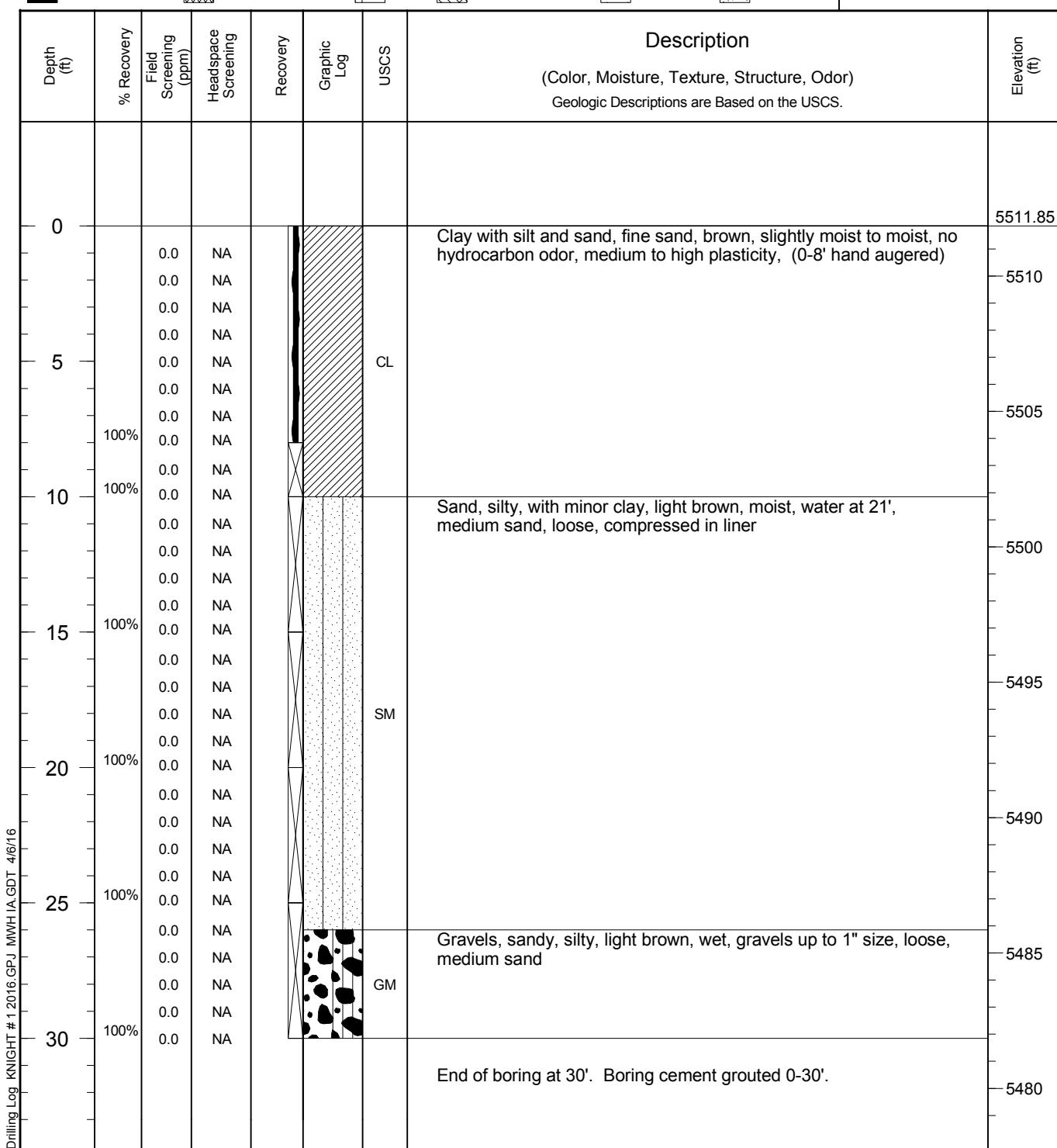
GP-3

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5511.85 ft North 2127828 East 2609220
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/7/2016 Completion Date 3/7/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

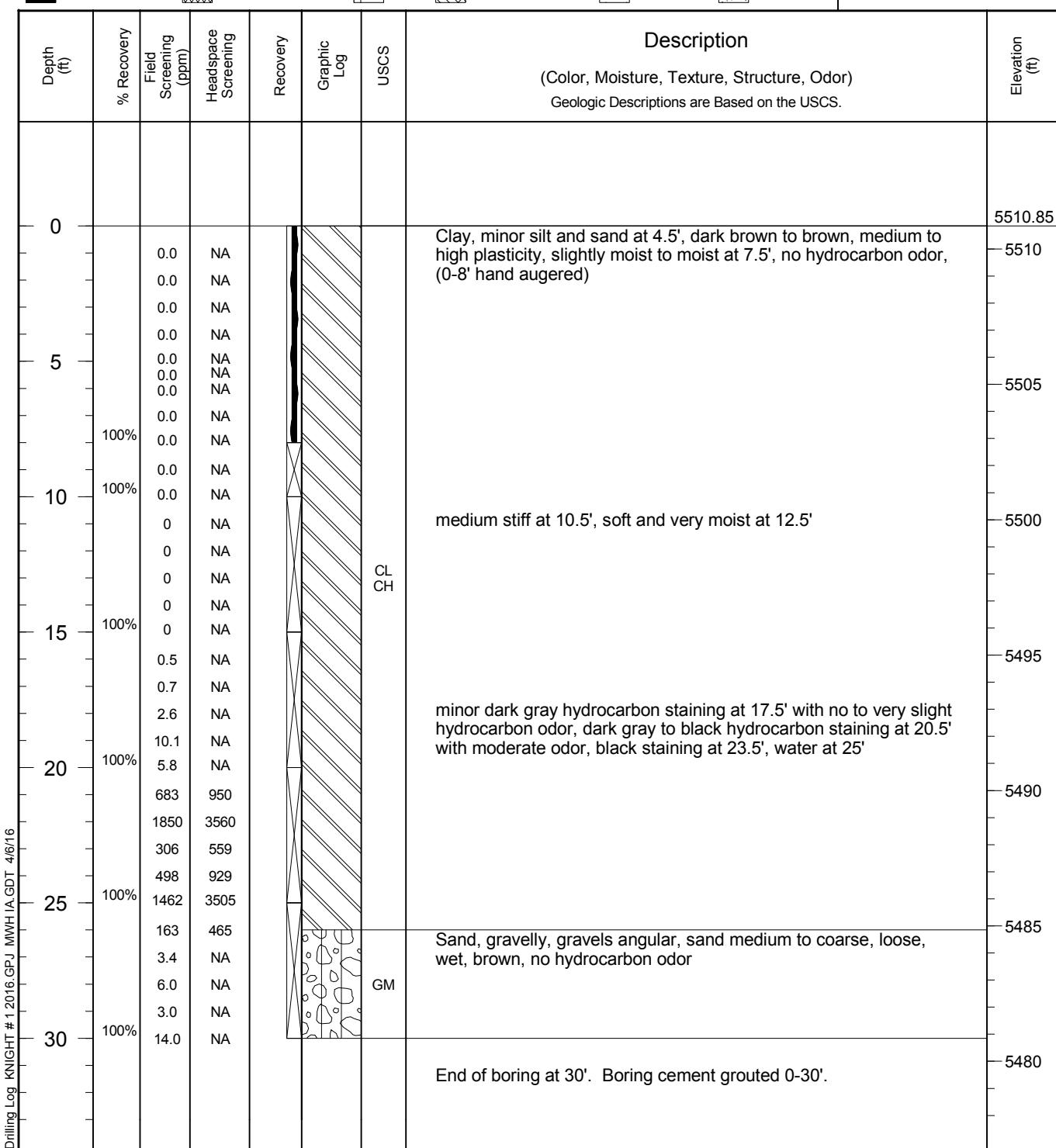
GP-4

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5510.85 ft North 2127824 East 2609289
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/10/2016 Completion Date 3/10/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

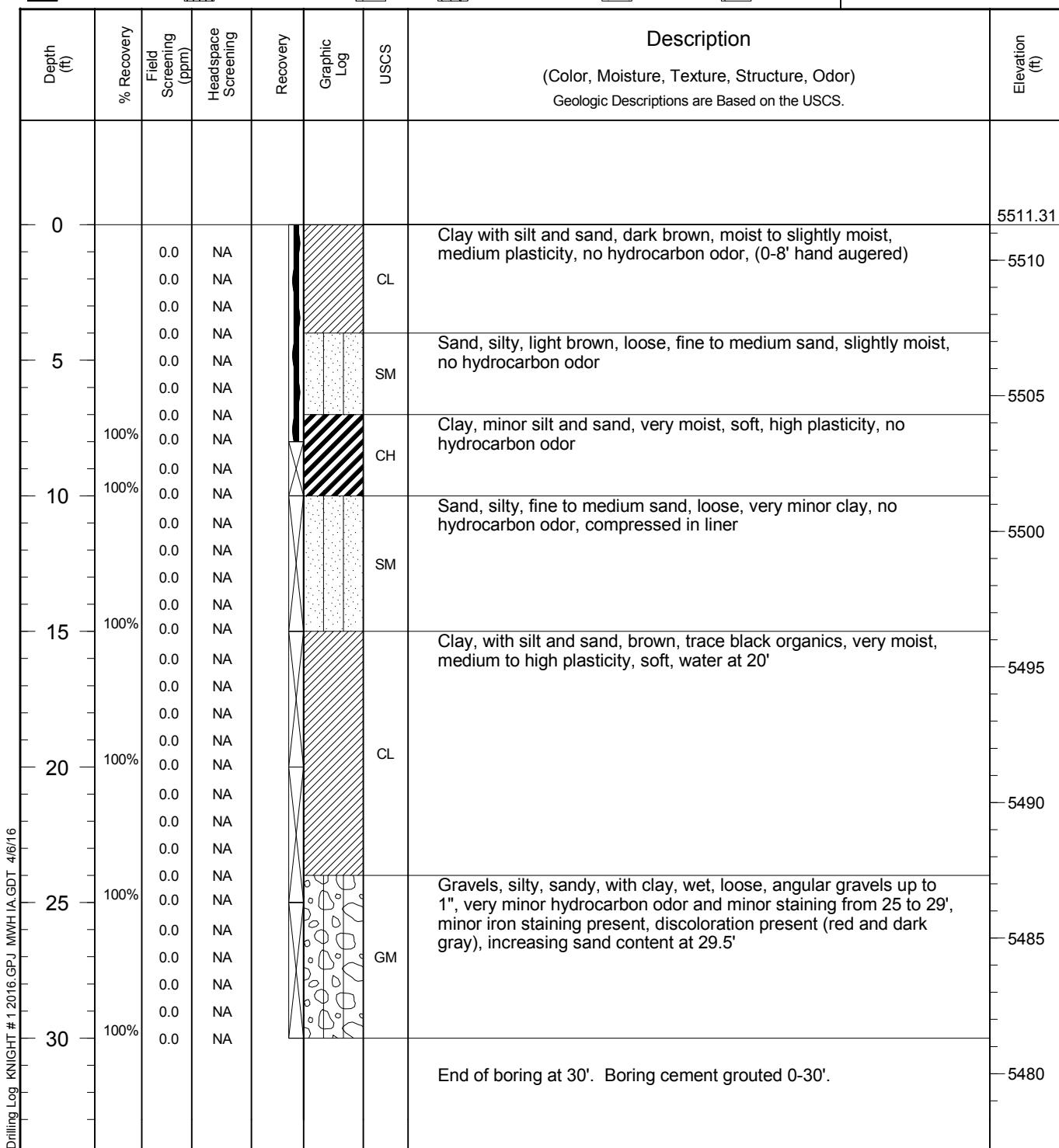
GP-5

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5511.31 ft North 2127816 East 2609246
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/7/2016 Completion Date 3/8/2016 Checked By Steve Varsa

[Legend] Bentonite Grout [diagonal lines] Bentonite Granules [cross-hatch] Grout [horizontal lines] Portland Cement [diagonal dots] Sand Pack [dots] Sand Pack [dots]

COMMENTS
 Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

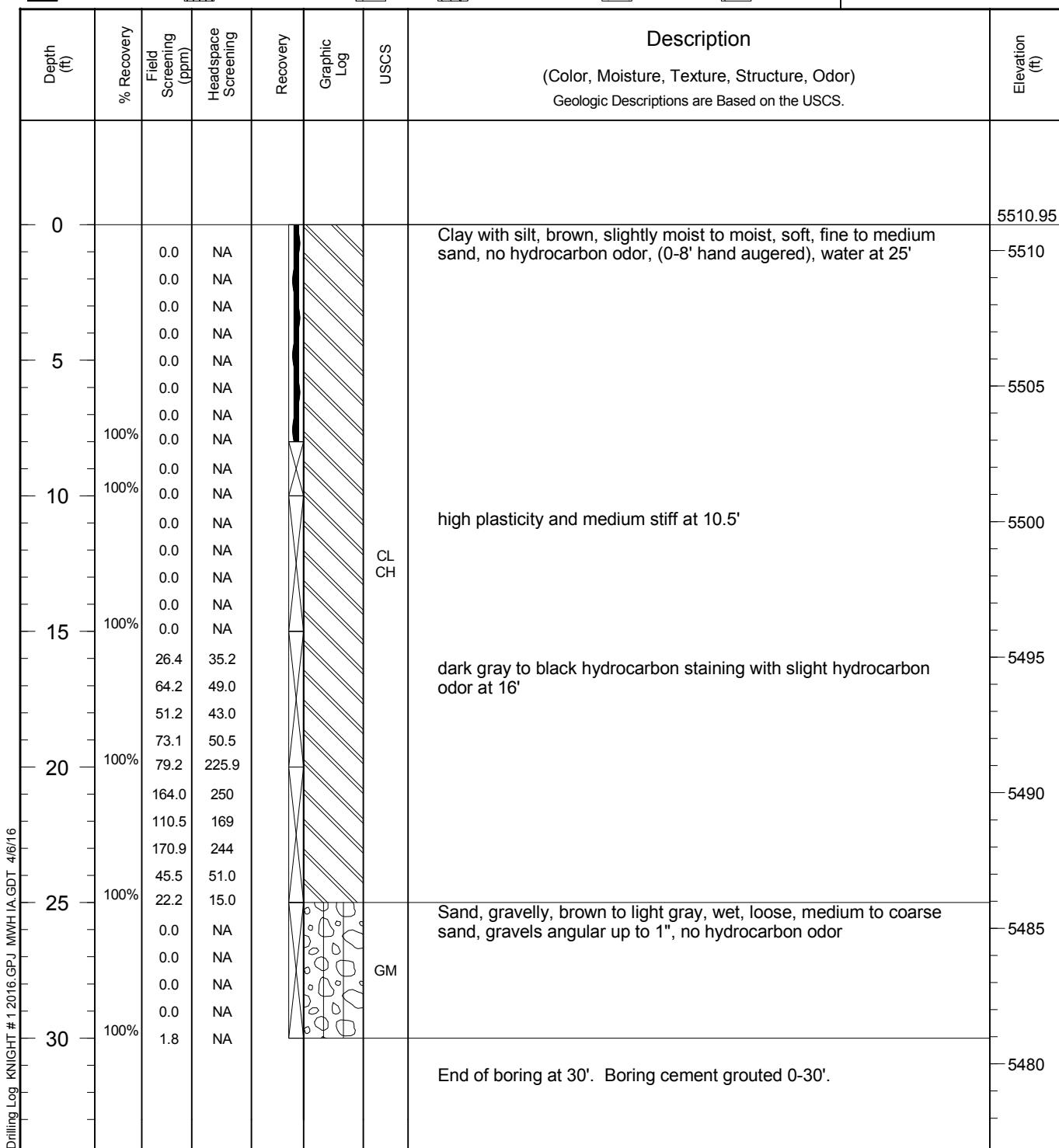
GP-6

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5510.95 ft North 2127805 East 2609263
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/9/2016 Completion Date 3/10/2016 Checked By Steve Varsa

[Legend: Bentonite Grout (solid black), Bentonite Granules (diagonal lines), Grout (cross-hatch), Portland Cement (dots), Sand Pack (dotted cross-hatch)]

COMMENTS
 Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

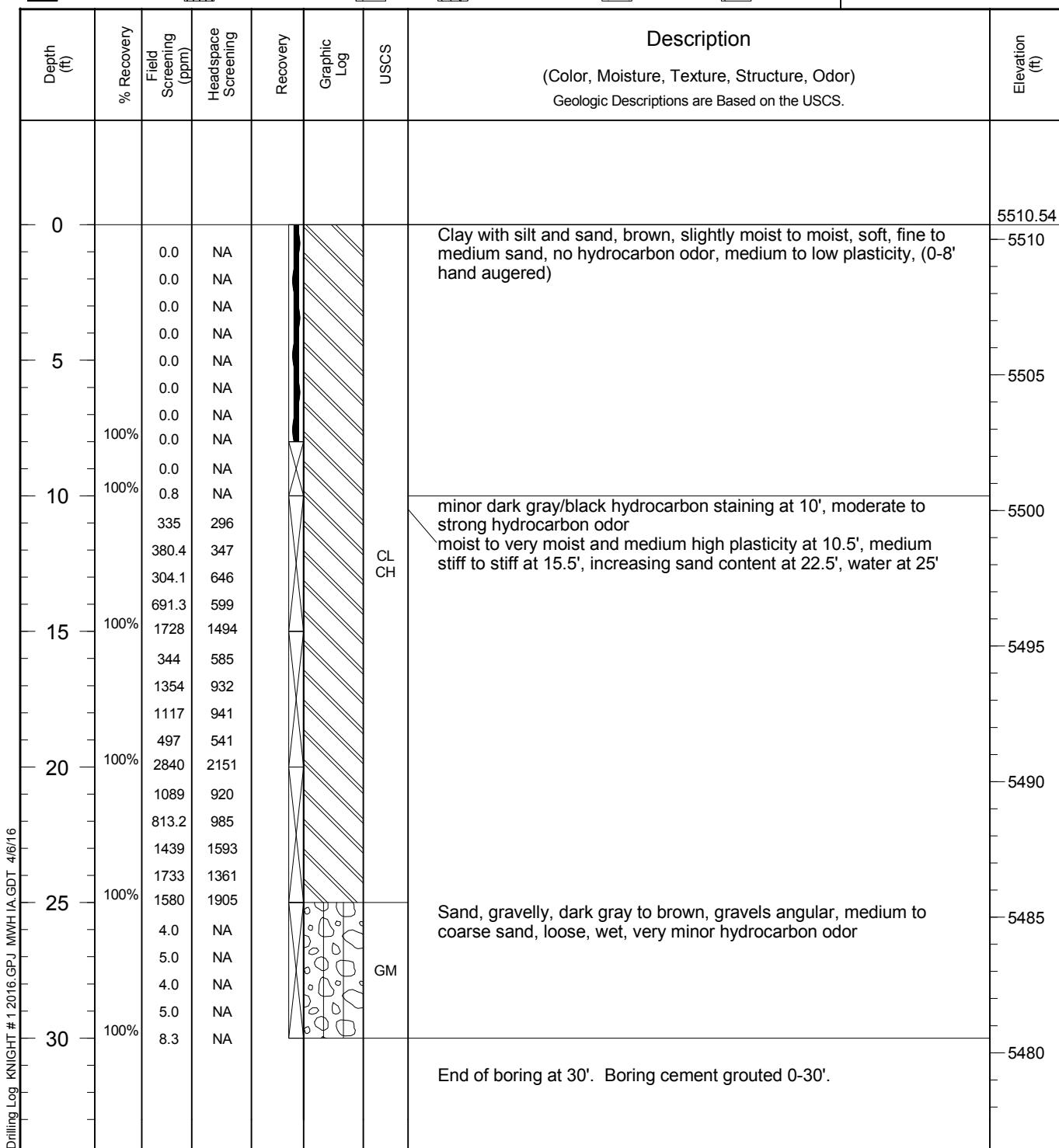
GP-7

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5510.54 ft North 2127807 East 2609292
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/9/2016 Completion Date 3/10/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

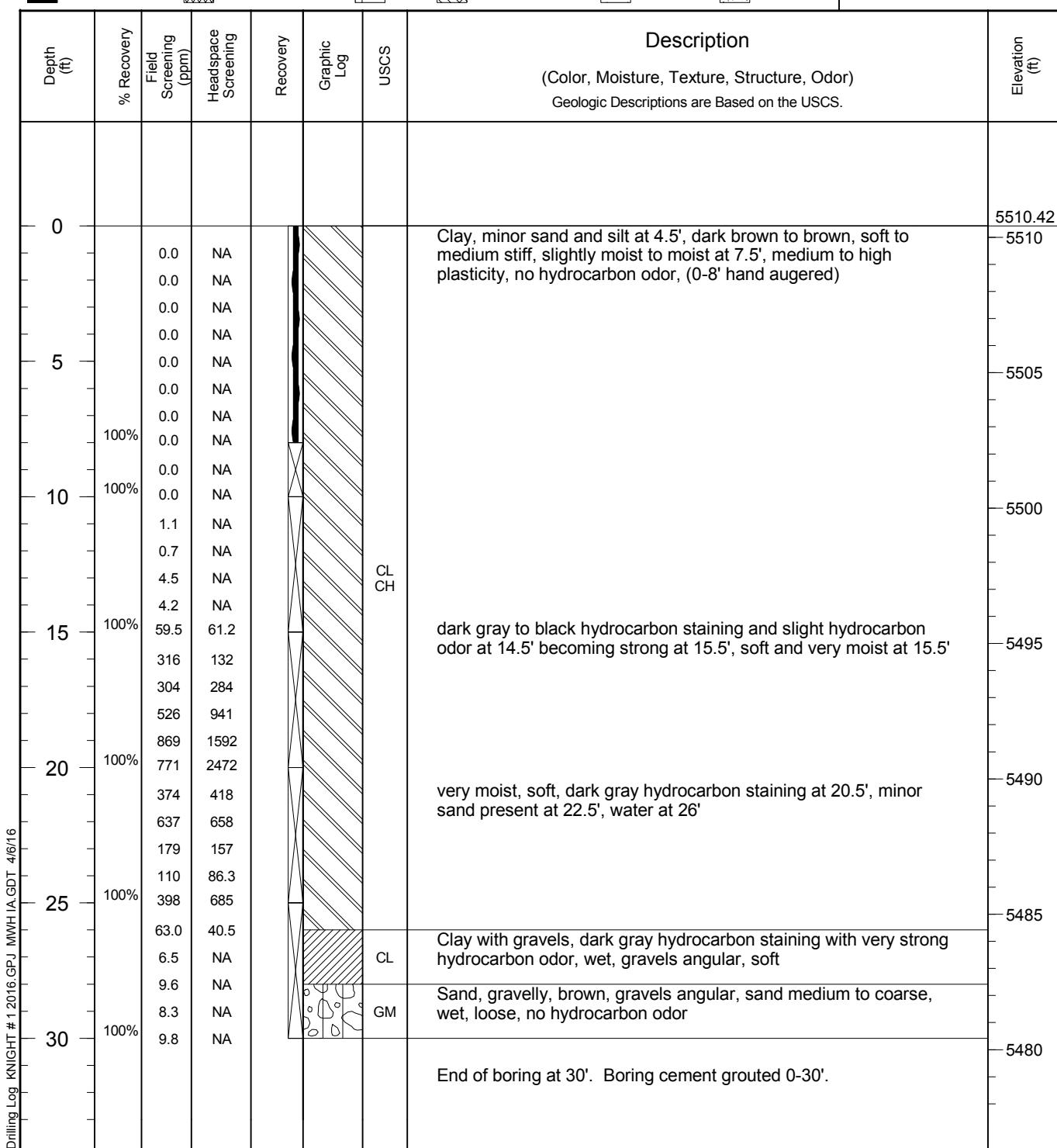
GP-8

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5510.42 ft North 2127806 East 2609309
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/10/2016 Completion Date 3/10/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
 Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

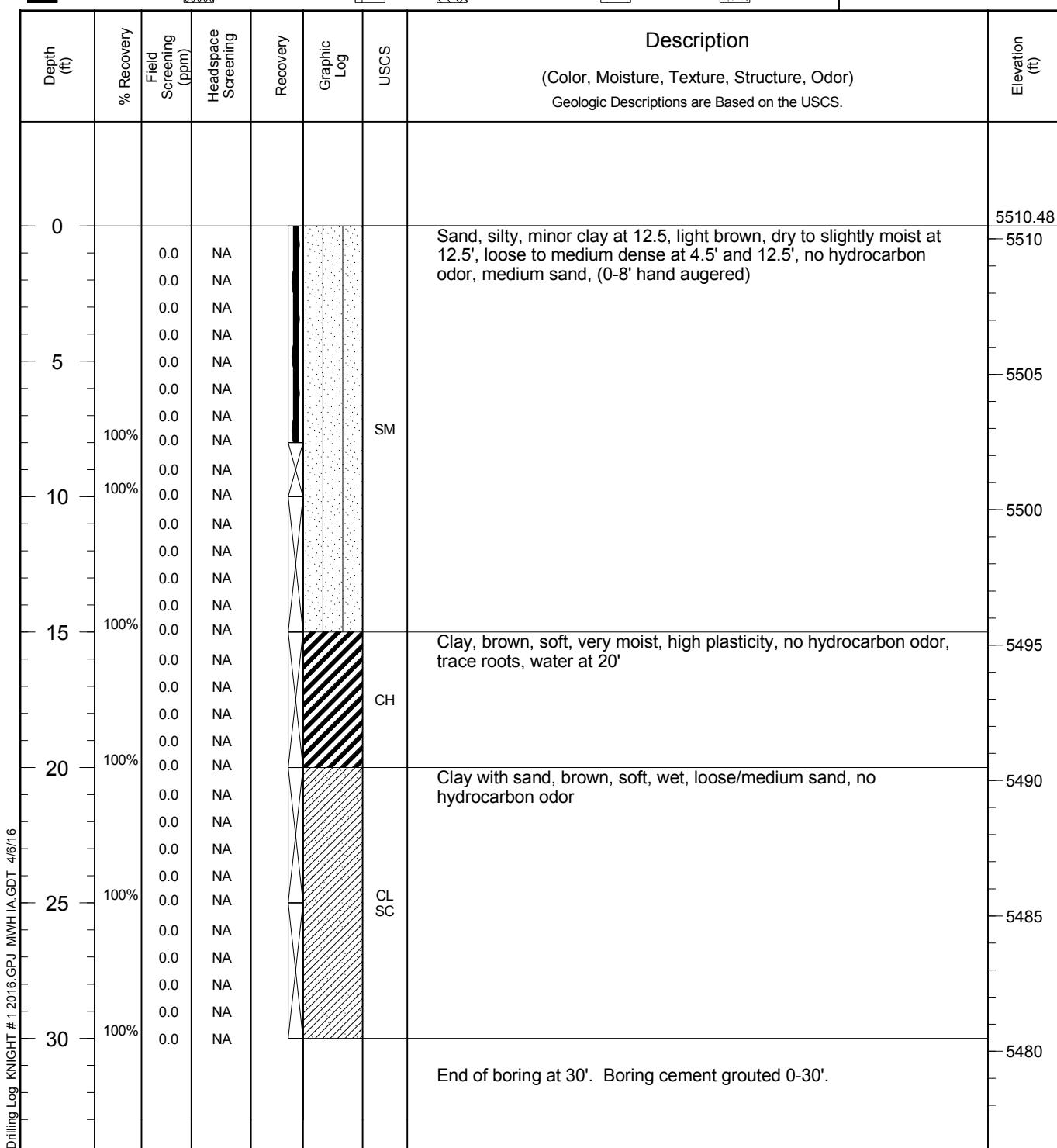
GP-9

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5510.48 ft North 2127792 East 2609209
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/7/2016 Completion Date 3/8/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

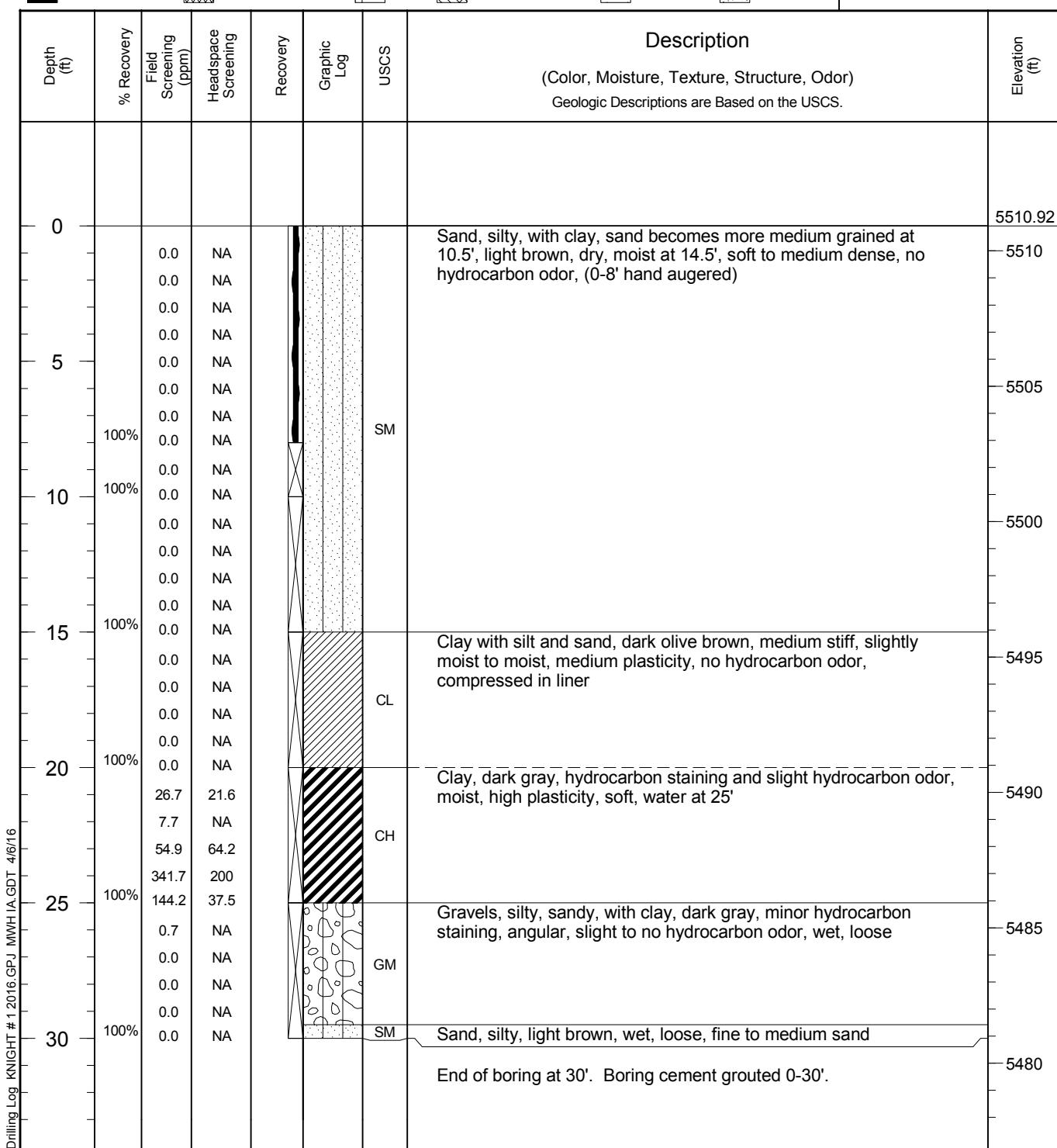
GP-10

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5510.92 ft North 2127791 East 2609240
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/7/2016 Completion Date 3/8/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

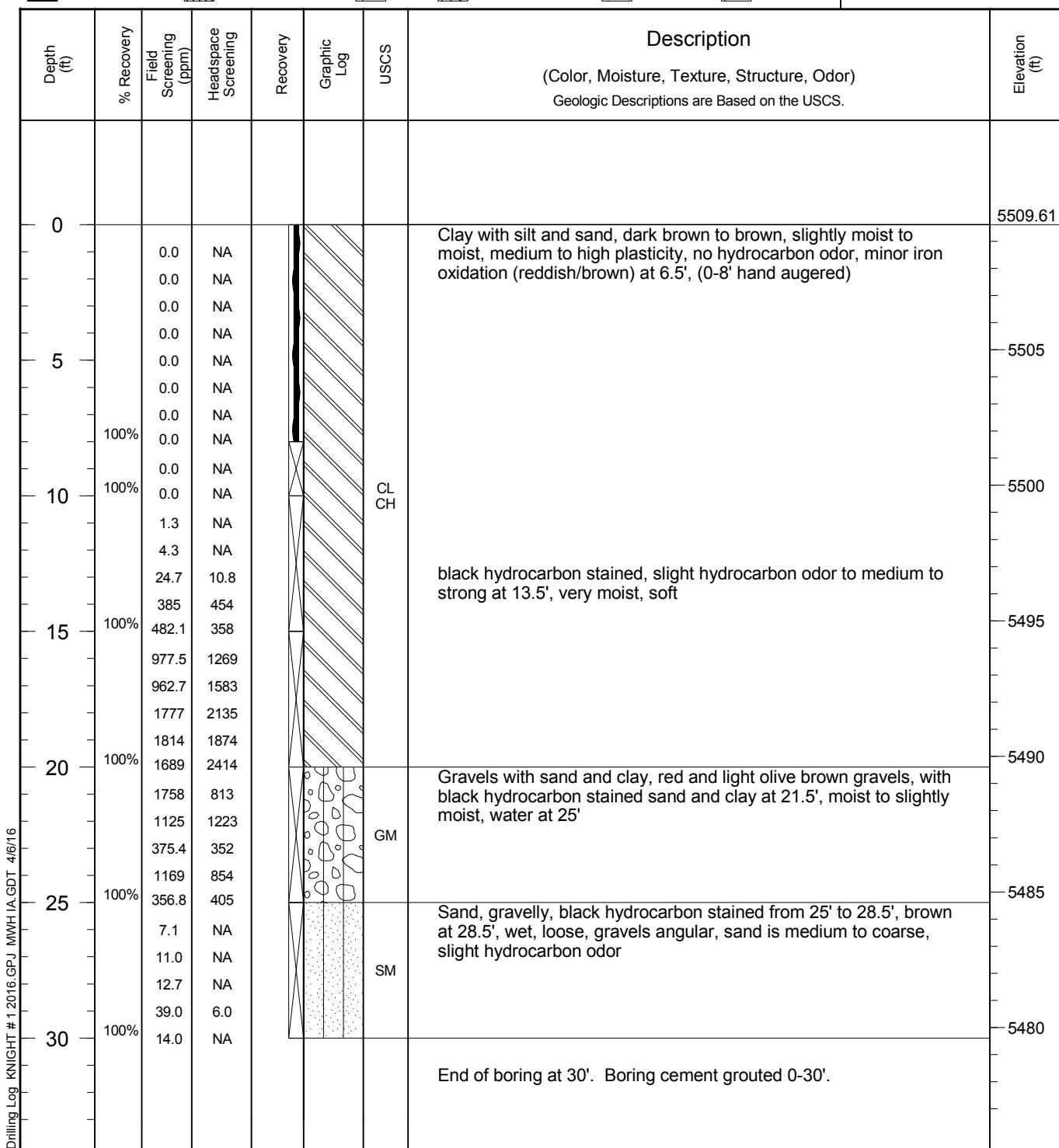
GP-11

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5509.61 ft North 2127780 East 2609315
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/9/2016 Completion Date 3/10/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

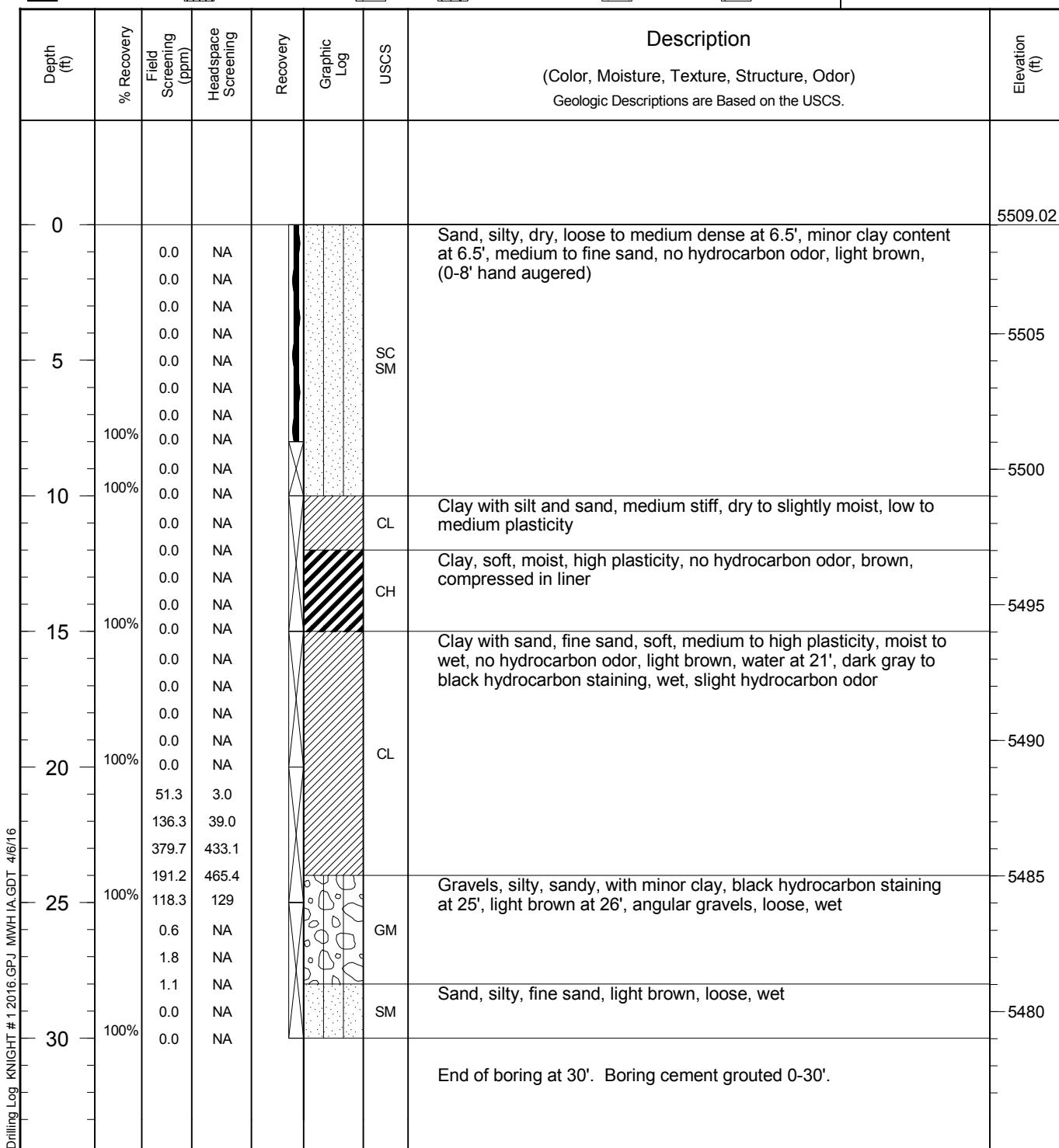
GP-12

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5509.02 ft North 2127767 East 2609204
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/7/2016 Completion Date 3/8/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

GP-13

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5510.30 ft North 2127764 East 2609232
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/8/2016 Completion Date 3/9/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.

Depth (ft)	% Recovery	Field Screening (ppm)	Headspace Screening	Recovery	Graphic Log	USCS	Description		Elevation (ft)
							(Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.		
0							Sand, silty, brown, dry, loose, fine to medium sand, no hydrocarbon odor, (0-8' hand augered)		5510.30 5510
5									5505
10									5500
15							Clay, with silt and sand, moist, medium to high plasticity, soft to medium stiff, no hydrocarbon odor, no hydrocarbon odor, water at 25'		5495
20							very moist, minor dark gray/black hydrocarbon staining at 18.5', no hydrocarbon odor ; hydrocarbon staining present at 20.5', slight to medium hydrocarbon odor		5490
25							Sand, gravelly, black/dark gray hydrocarbon staining present, slight hydrocarbon odor, brown with no staining or odor at 28', angular gravels, medium to coarse sand, loose, wet		5485
30							End of boring at 30'. Boring cement grouted 0-30'.		5480



MWH

Drilling Log

Soil Boring

GP-14

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5510.42 ft North 2127760 East 2609249
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/8/2016 Completion Date 3/9/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field), moved location 2-3' west due to old abandoned pipeline, moved location another 1' south after no recovery from the 8' to 15' interval in the first borehole.
NA = Not Analyzed.

Depth (ft)	% Recovery	Field Screening (ppm)	Headspace Screening	Recovery	Graphic Log	USCS	Description		Elevation (ft)
							(Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.		
0							Sand. silty, brown, dry, loose, fine to medium sand, no hydrocarbon odor, (0-8' hand augered)		5510.42
5									5510
10									5505
15							Clay with silt and sand, moist to very moist, soft, brown, medium to high plasticity, dark gray to black hydrocarbon stained with slight to medium hydrocarbon odor at 14.5' and 16.5', water at 25'		5500
20									5495
25							Gravel with sand, angular gravels, loose, wet, very slight hydrocarbon odor and minor hydrocarbon staining from 25' to 28.5', brown with no staining or odor from 28.5' to 30'		5490
30							End of boring at 30'. Boring cement grouted 0-30'.		5485
									5480



MWH

Drilling Log

Soil Boring

GP-15

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5509.92 ft North 2127754 East 2609284
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/9/2016 Completion Date 3/10/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
 Grassy ground cover (farm field). NA = Not Analyzed.

Depth (ft)	% Recovery	Field Screening (ppm)	Headspace Screening	Recovery	Graphic Log	USCS	Description		Elevation (ft)
							(Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.		
0							Sand, silty, minor clay content at 8.5', brown, dry to slightly moist at 8.5', loose, fine to medium sand, no hydrocarbon odor, (0-8' hand augered)		5509.92
5									5505
10									5500
15							Clay with silt/sand, brown, moist to very moist at 17.5', soft, medium to high plasticity, very minor dark gray hydrocarbon staining at 14.5' and dark gray to black hydrocarbon staining at 15.5' with slight to medium hydrocarbon odor, water at 25'	5495	
20							medium to strong hydrocarbon odor and black hydrocarbon staining at 20.5'		5490
25							Sand, gravelly, loose, wet, minor hydrocarbon staining, slight hydrocarbon odor, gravels angular up to 1", medium to coarse sand, less gravel and no hydrocarbon odor below 26.5'		5485
30							End of boring at 30'. Boring cement grouted 0-30'.		5480



MWH

Drilling Log

Soil Boring

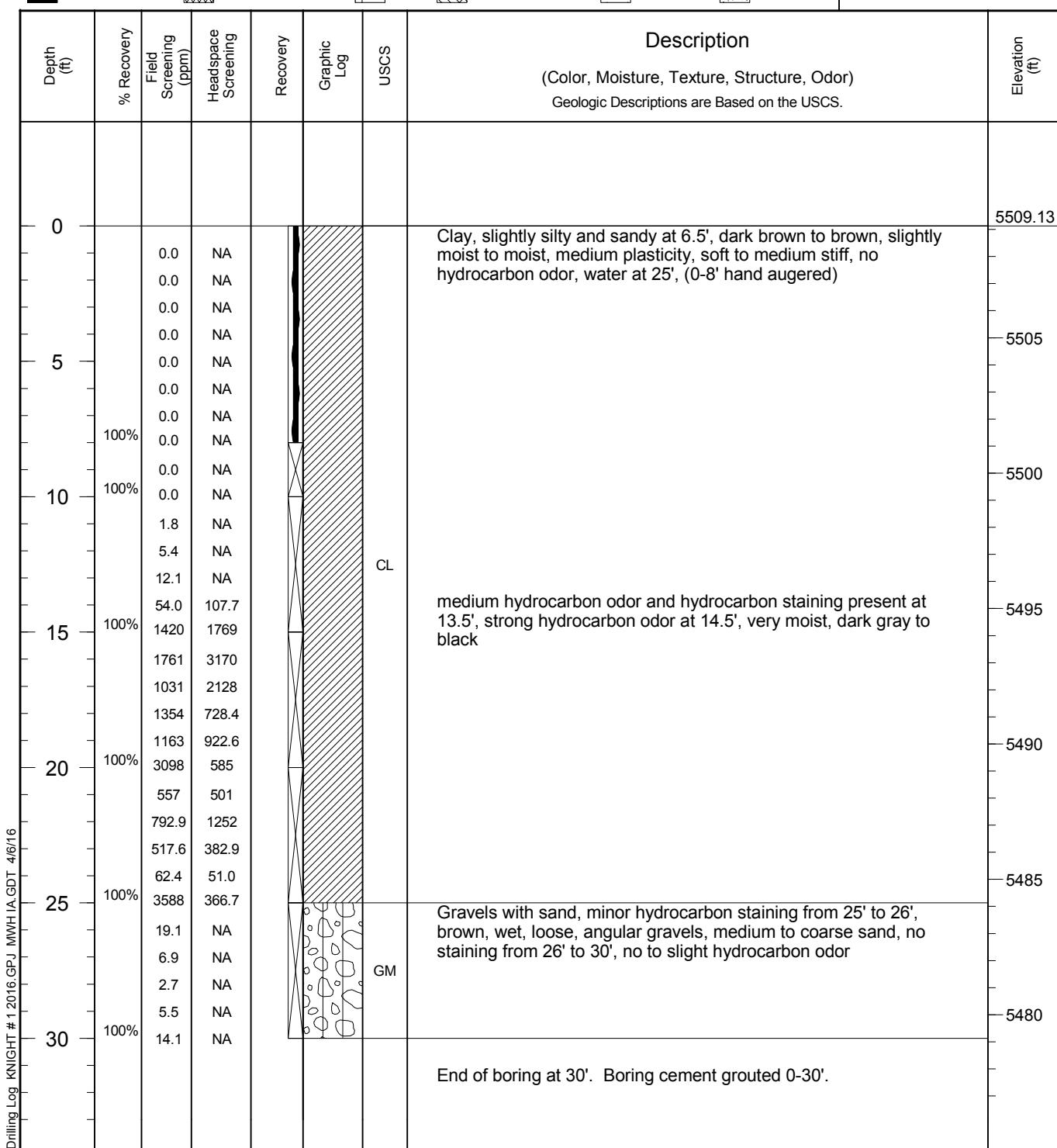
GP-16

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5509.13 ft North 2127760 East 2609308
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/9/2016 Completion Date 3/9/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

GP-17

Page: 1 of 1

Project Knight #1Owner El Paso CGP Company, LLCLocation San Juan County, New MexicoProject Number 10508814Surface Elev. 5509.00 ftNorth 2127746East 2609197Top of Casing NAWater Level Initial ▽Static ▽Hole Depth 30.0ftScreen: Diameter NALength NAType/Size NAHole Diameter 2.875 inCasing: Diameter NALength NAType NADrill Co. Vista Geoscience, LLCDrilling Method Direct Push/Dual-tubeSand Pack NADriller Chase Cain/Mike MartinDriller Reg. # WD-1705Log By Brad BartonStart Date 3/7/2016Completion Date 3/8/2016Checked By Steve Varsa

Bentonite Grout
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

COMMENTS

Grassy ground cover (farm field). NA = Not Analyzed.

Depth (ft)	% Recovery	Field Screening (ppm)	Headspace Screening	Recovery	Graphic Log	USCS	Description		Elevation (ft)
							(Color, Moisture, Texture, Structure, Odor)	Geologic Descriptions are Based on the USCS.	
0							Sand, silty, with minor clay, brown, slightly moist to moist, (0-8' hand augered)		5509.00
5									5505
10									5500
15							Clay with silt and sand, moist, light brown to light olive brown at 15.5', low to medium plasticity, fine to medium sand, no hydrocarbon odor, soft to medium stiff at 15.5', water at 25'		5495
20									5490
25							minor dark gray to black hydrocarbon staining with slight hydrocarbon odor at 22.5'		5485
30							Gravels with clay and sand, sand content increases with depth, fine to medium sand, brown, loose, wet, no hydrocarbon odor, angular gravels		5480
							End of boring at 30'. Boring cement grouted 0-30'.		



MWH

Drilling Log

Soil Boring

GP-18

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5509.72 ft North 2127745 East 2609229
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/8/2016 Completion Date 3/8/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.

Depth (ft)	% Recovery	Field Screening (ppm)	Headspace Screening	Recovery	Graphic Log	USCS	Description		Elevation (ft)
							(Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.		
0							Sand, silty, brown, loose, dry, medium sand to fine sand, minor gravels, no hydrocarbon odor, (0-8' hand augered)		5509.72
5									5505
10									5500
15							Clay with silt and sand, brown to light brown, medium to high plasticity, moist to very moist at 17.5', no hydrocarbon odor, medium stiff to stiff at 17.5', water at 25'		5495
20							dark gray to black hydrocarbon staining, slight to moderate hydrocarbon odor		5490
25							Sand, gravelly, wet, brown, angular gravels, no hydrocarbon odor		5485
30							End of boring at 30'. Boring cement grouted 0-30'.		5480



MWH

Drilling Log

Soil Boring

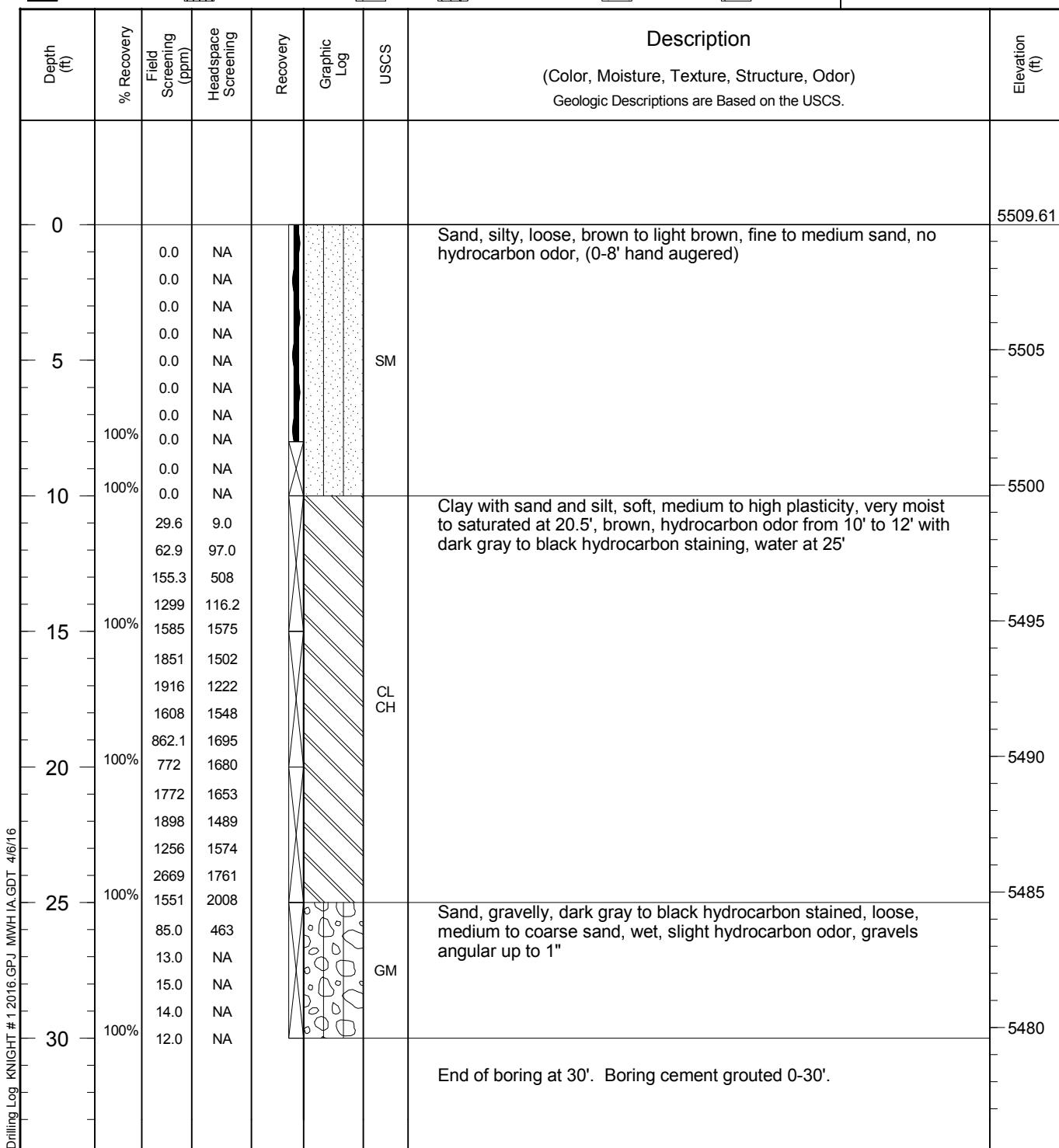
GP-19

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5509.61 ft North 2127731 East 2609272
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/9/2016 Completion Date 3/9/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
 Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

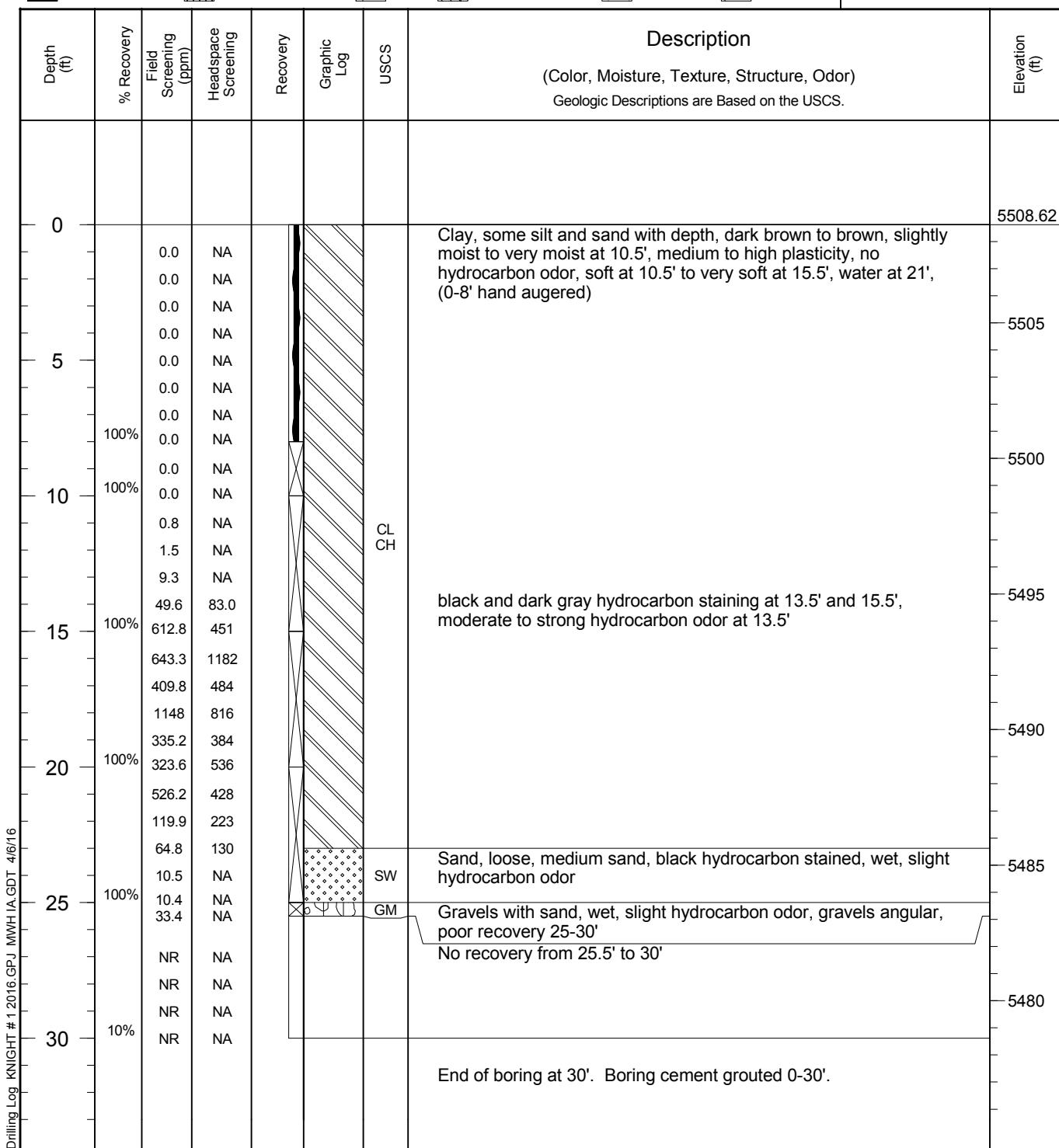
GP-20

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5508.62 ft North 2127737 East 2609306
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/9/2016 Completion Date 3/9/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

GP-21

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5508.70 ft North 2127721 East 2609210
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/8/2016 Completion Date 3/9/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.

Depth (ft)	% Recovery	Field Screening (ppm)	Headspace Screening	Recovery	Graphic Log	USCS	Description		Elevation (ft)
							(Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.		
0							Sand, silty, minor rounded gravels up to 0.5" at 4.5', brown, dry to slightly moist at 8.5', loose, fine to medium sand, no hydrocarbon odor, (0-8' hand augered)		5508.70
5									5505
10									5500
15							Clay with silt and sand, moist to very moist at 20.5', brown, medium to high plasticity, soft to medium stiff, no hydrocarbon odor, water at 25'		5495
20									5490
25							Gravels with sand and silt, brown, gravels up to 1", angular, medium to coarse sand, loose, wet, no hydrocarbon odor		5485
30							End of boring at 30'. Boring cement grouted 0-30'.		5480



MWH

Drilling Log

Soil Boring

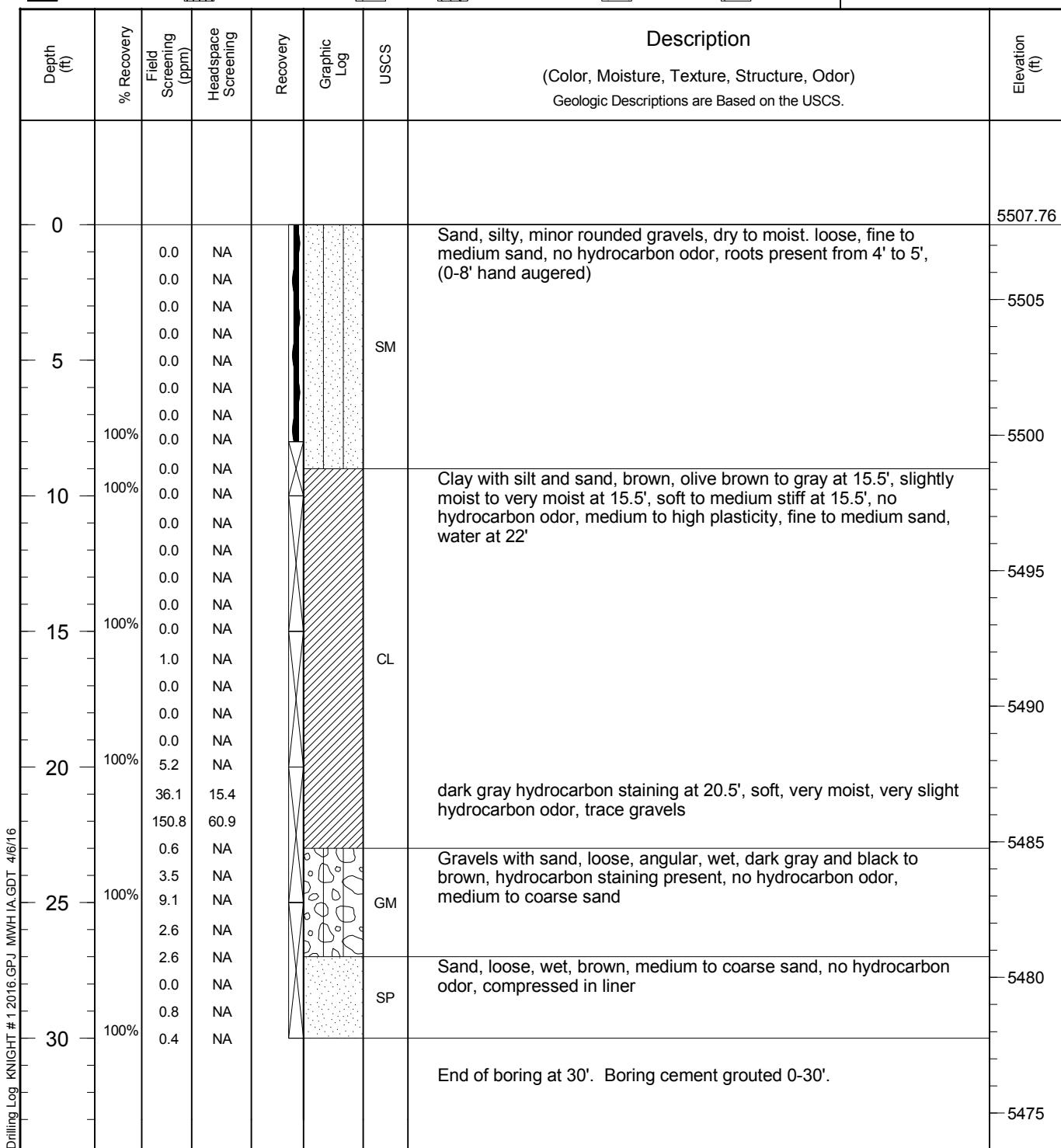
GP-22

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5507.76 ft North 2127727 East 2609225
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/8/2016 Completion Date 3/9/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
*Grassy ground cover (farm field), adjacent to drainage ditch.
 NA = Not Analyzed.*





MWH

Drilling Log

Soil Boring

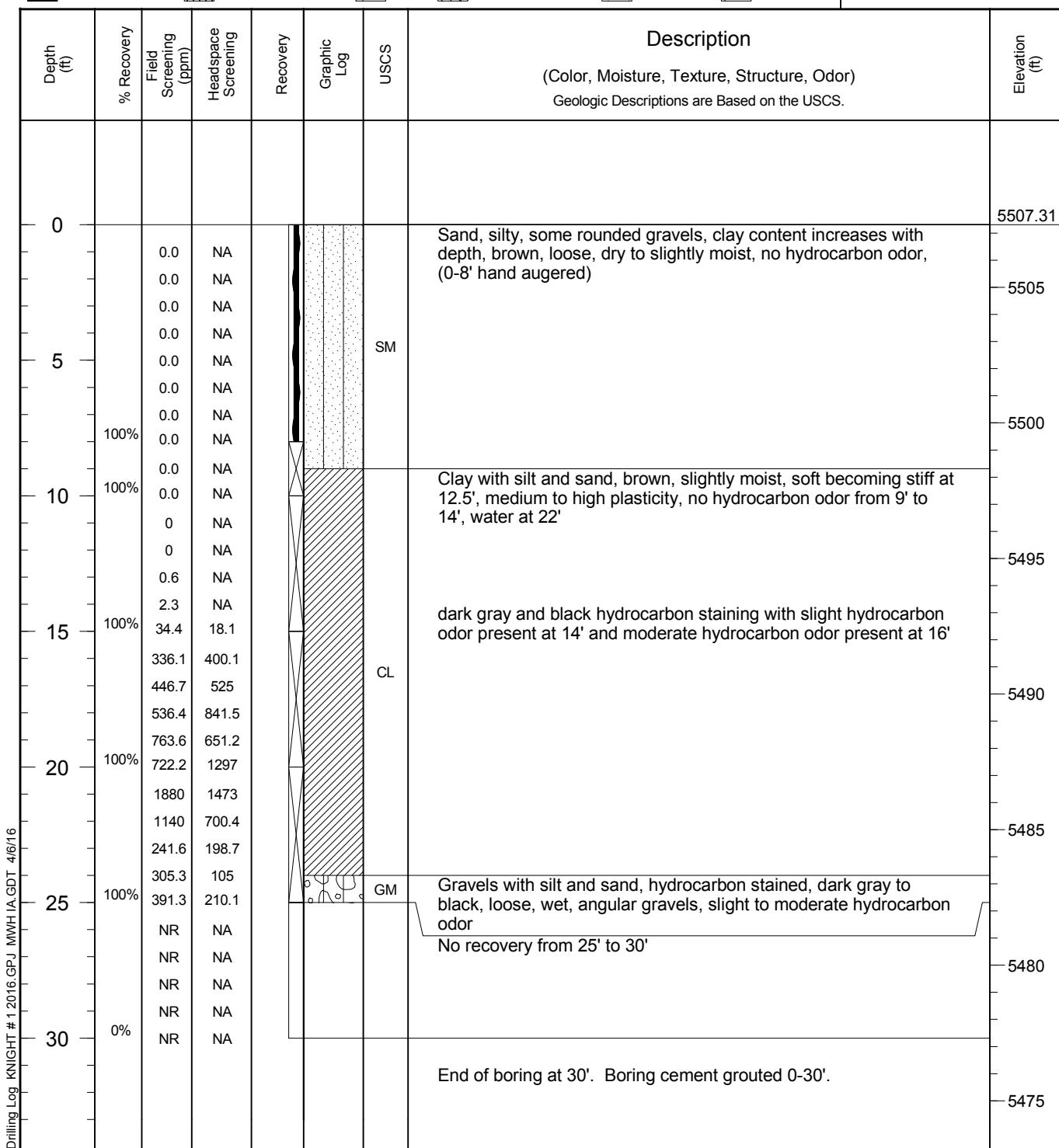
GP-23

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5507.31 ft North 2127715 East 2609241
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/8/2016 Completion Date 3/9/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
 Grassy ground cover (farm field), moved location 5' south due to drainage ditch. NA = Not Analyzed.





MWH

Drilling Log

Soil Boring

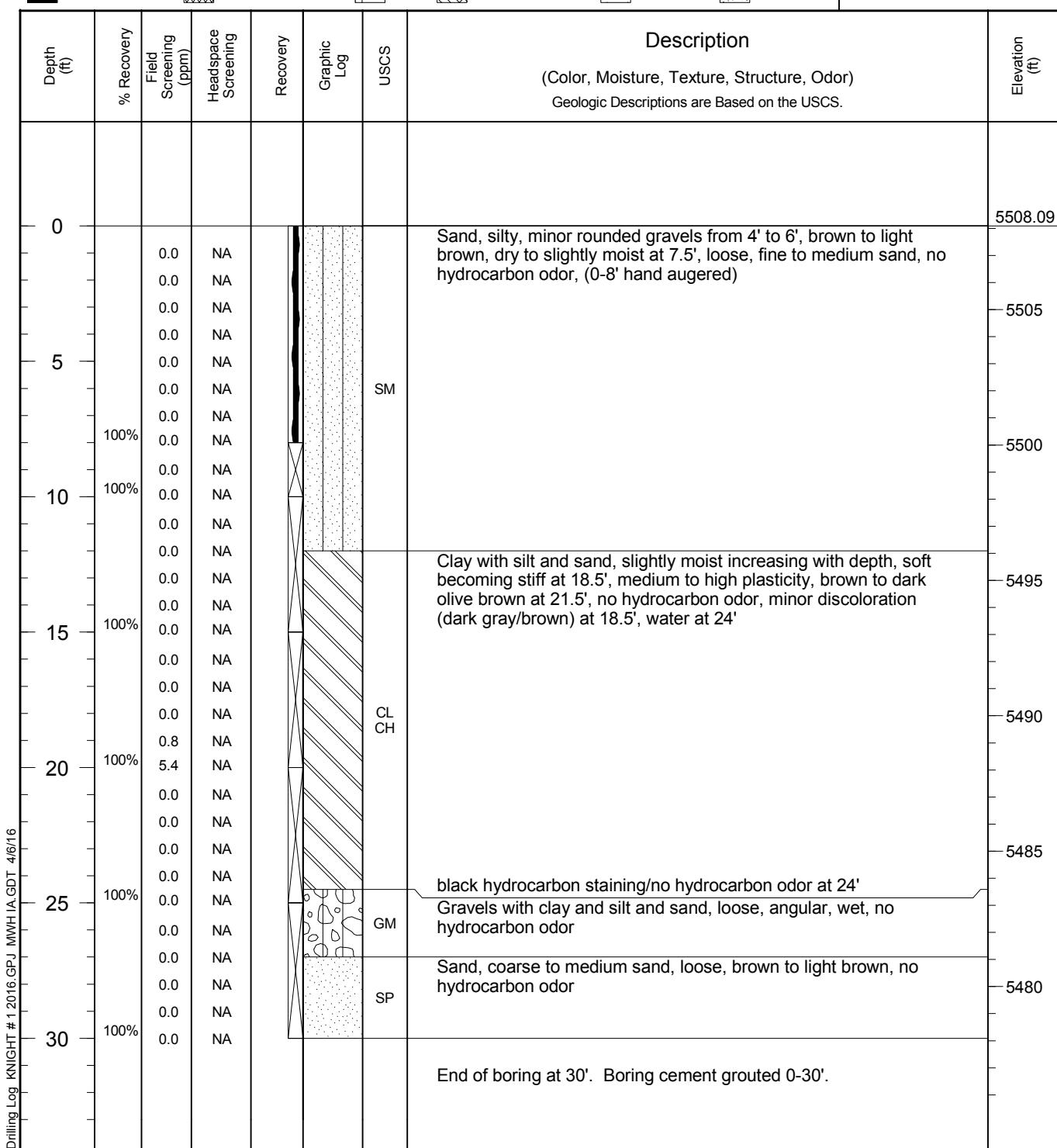
GP-24

Page: 1 of 1

Project Knight #1 Owner El Paso CGP Company, LLC
 Location San Juan County, New Mexico Project Number 10508814
 Surface Elev. 5508.09 ft North 2127703 East 2609218
 Top of Casing NA Water Level Initial ▽ Static ▽
 Hole Depth 30.0ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter 2.875 in Casing: Diameter NA Length NA Type NA
 Drill Co. Vista Geoscience, LLC Drilling Method Direct Push/Dual-tube Sand Pack NA
 Driller Chase Cain/Mike Martin Driller Reg. # WD-1705 Log By Brad Barton
 Start Date 3/8/2016 Completion Date 3/9/2016 Checked By Steve Varsa

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS
Grassy ground cover (farm field). NA = Not Analyzed.



APPENDIX B



Bill of Lading

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

MANIFEST # 53982
GENERATOR ~~Enterprise~~ El Paso CGP
POINT OF ORIGIN Knight #1
TRANSPORTER Sierra
DATE 3-11-16 JOB # 14073-0014

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII	contsoil	K1		2		22	1016	Jenny Velby
					2				
RESULTS		LANDFARM EMPLOYEE	Gary Robinson			81	NOTES		
4305	CHLORIDE TEST								
	PAINT FILTER TEST		Certification of above receival & placement						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

APPENDIX C

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-120372-1

Client Project/Site: Knight #1

For:

MWH Americas Inc

11153 Aurora Avenue

Des Moines, Iowa 50322-7904

Attn: Steve Varsa



Authorized for release by:

4/29/2016 9:46:56 AM

Marty Edwards, Manager of Project Management

(850)474-1001

marty.edwards@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?

Ask
The
Expert

Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Job ID: 400-120372-1

Laboratory: TestAmerica Pensacola

Narrative

**Job Narrative
400-120372-1**

Comments

No additional comments.

Receipt

The samples were received on 4/16/2016 9:09 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Client Sample ID: MW-1

Lab Sample ID: 400-120372-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	110		5.0	ug/L	5		8021B	Total/NA
Ethylbenzene	910		5.0	ug/L	5		8021B	Total/NA
Xylenes, Total	1000		25	ug/L	5		8021B	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-120372-2

No Detections.

Client Sample ID: MW-7

Lab Sample ID: 400-120372-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.8		2.0	ug/L	2		8021B	Total/NA
Ethylbenzene	4.3		2.0	ug/L	2		8021B	Total/NA
Xylenes, Total	48		10	ug/L	2		8021B	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-120372-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	410		10	ug/L	10		8021B	Total/NA
Ethylbenzene	32		10	ug/L	10		8021B	Total/NA
Xylenes, Total	54		50	ug/L	10		8021B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-120372-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-120372-1	MW-1	Water	04/15/16 13:30	04/16/16 09:09
400-120372-2	MW-2	Water	04/15/16 13:35	04/16/16 09:09
400-120372-3	MW-7	Water	04/15/16 13:40	04/16/16 09:09
400-120372-4	MW-11	Water	04/15/16 13:45	04/16/16 09:09
400-120372-5	TRIP BLANK	Water	04/15/16 00:00	04/16/16 09:09

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TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Client Sample ID: MW-1

Date Collected: 04/15/16 13:30

Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-1

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	110		5.0	ug/L		04/27/16 18:07		5
Ethylbenzene	910		5.0	ug/L		04/27/16 18:07		5
Toluene	<25		25	ug/L		04/27/16 18:07		5
Xylenes, Total	1000		25	ug/L		04/27/16 18:07		5
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)		97		78 - 124			04/27/16 18:07	5

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Client Sample ID: MW-2

Date Collected: 04/15/16 13:35

Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-2

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L		04/27/16 15:50		1
Ethylbenzene	<1.0		1.0	ug/L		04/27/16 15:50		1
Toluene	<5.0		5.0	ug/L		04/27/16 15:50		1
Xylenes, Total	<5.0		5.0	ug/L		04/27/16 15:50		1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	89		78 - 124			04/27/16 15:50		1

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Client Sample ID: MW-7

Date Collected: 04/15/16 13:40

Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-3

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.8		2.0	ug/L		04/27/16 18:41		2
Ethylbenzene	4.3		2.0	ug/L		04/27/16 18:41		2
Toluene	<10		10	ug/L		04/27/16 18:41		2
Xylenes, Total	48		10	ug/L		04/27/16 18:41		2
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)		88		78 - 124			04/27/16 18:41	2

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Client Sample ID: MW-11

Date Collected: 04/15/16 13:45

Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-4

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	410		10	ug/L		04/27/16 19:15		10
Ethylbenzene	32		10	ug/L		04/27/16 19:15		10
Toluene	<50		50	ug/L		04/27/16 19:15		10
Xylenes, Total	54		50	ug/L		04/27/16 19:15		10
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	95		78 - 124			04/27/16 19:15		10

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Client Sample ID: TRIP BLANK

Date Collected: 04/15/16 00:00

Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-5

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L		04/27/16 16:24		1
Ethylbenzene	<1.0		1.0	ug/L		04/27/16 16:24		1
Toluene	<5.0		5.0	ug/L		04/27/16 16:24		1
Xylenes, Total	<5.0		5.0	ug/L		04/27/16 16:24		1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	90		78 - 124			04/27/16 16:24		1

QC Association Summary

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

GC VOA

Analysis Batch: 303665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120372-1	MW-1	Total/NA	Water	8021B	5
400-120372-2	MW-2	Total/NA	Water	8021B	6
400-120372-2 MS	MW-2	Total/NA	Water	8021B	7
400-120372-2 MSD	MW-2	Total/NA	Water	8021B	8
400-120372-3	MW-7	Total/NA	Water	8021B	9
400-120372-4	MW-11	Total/NA	Water	8021B	10
400-120372-5	TRIP BLANK	Total/NA	Water	8021B	11
LCS 400-303665/1002	Lab Control Sample	Total/NA	Water	8021B	12
MB 400-303665/4	Method Blank	Total/NA	Water	8021B	13

QC Sample Results

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-303665/4

Matrix: Water

Analysis Batch: 303665

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<1.0		1.0	ug/L			04/27/16 13:41	1
Ethylbenzene	<1.0		1.0	ug/L			04/27/16 13:41	1
Toluene	<5.0		5.0	ug/L			04/27/16 13:41	1
Xylenes, Total	<5.0		5.0	ug/L			04/27/16 13:41	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	90		78 - 124		04/27/16 13:41	1

Lab Sample ID: LCS 400-303665/1002

Matrix: Water

Analysis Batch: 303665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	
Benzene	50.0	49.1		ug/L		98	85 - 115
Ethylbenzene	50.0	44.5		ug/L		89	85 - 115
Toluene	50.0	45.2		ug/L		90	85 - 115
Xylenes, Total	150	130		ug/L		87	85 - 115

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	97		78 - 124			

Lab Sample ID: 400-120372-2 MS

Matrix: Water

Analysis Batch: 303665

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec
Benzene	<1.0		50.0	52.1		ug/L		104
Ethylbenzene	<1.0		50.0	47.1		ug/L		94
Toluene	<5.0		50.0	47.2		ug/L		94
Xylenes, Total	<5.0		150	140		ug/L		93

Surrogate	MS	MS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	95		78 - 124			

Lab Sample ID: 400-120372-2 MSD

Matrix: Water

Analysis Batch: 303665

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	RPD
Benzene	<1.0		50.0	49.0		ug/L		6
Ethylbenzene	<1.0		50.0	47.8		ug/L		16
Toluene	<5.0		50.0	48.1		ug/L		2
Xylenes, Total	<5.0		150	141		ug/L		15

Surrogate	MSD	MSD	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	96		78 - 124			

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Client Sample ID: MW-1

Date Collected: 04/15/16 13:30
Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		5	5 mL	5 mL	303665	04/27/16 18:07	GRK	TAL PEN

Instrument ID: CH_JOAN

Client Sample ID: MW-2

Date Collected: 04/15/16 13:35
Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303665	04/27/16 15:50	GRK	TAL PEN

Instrument ID: CH_JOAN

Client Sample ID: MW-7

Date Collected: 04/15/16 13:40
Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		2	5 mL	5 mL	303665	04/27/16 18:41	GRK	TAL PEN

Instrument ID: CH_JOAN

Client Sample ID: MW-11

Date Collected: 04/15/16 13:45
Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	303665	04/27/16 19:15	GRK	TAL PEN

Instrument ID: CH_JOAN

Client Sample ID: TRIP BLANK

Date Collected: 04/15/16 00:00
Date Received: 04/16/16 09:09

Lab Sample ID: 400-120372-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303665	04/27/16 16:24	GRK	TAL PEN

Instrument ID: CH_JOAN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola

Certification Summary

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-16
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	05-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-16
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Method Summary

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-120372-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Chain of Custody Record

Client Information		Sample: Client Overview		Lab P/M: Edwards, Mary P		Carrier Tracking No(s):	
Client Contact:	Ms. Sarah Gardner	Phone:		E-Mail:	marty.edwards@testamericainc.com	COC No:	400-54331-21707.1
Company:	MWH Americas Inc	Address:	1560 Broadway Suite 1800	Due Date Requested:	14 Oct 2015	Page:	Page 1 of 1
City:	Denver	FAT Requested (days):		Job #:			
State, Zip:	CO, 80202	PO #:		Preservation Codes:			
Phone:	303-291-2239(Tel)	Purchase Order Requested		A - HCl	M - Hexane		
Email:	sarah.gardner@mwhglobal.com	MO #:		B - NaOH	N - None		
Project Name:	Knight #1	Project #:	40003479	C - Zn Acetate	O - AsNaO2		
Site:		SSOW#:		D - Nitric Acid	P - Na2O4S		
				E - NaHSO4	Q - Na2SO3		
				F - MeOH	R - Na2SC2O3		
				G - Ascorbic Acid	S - H2SC4		
				H - Ammonium	T - TSP Dodecachydrate		
				I - Ice	V - Acetone		
				J - DI Water	W - pH 4-5		
				K - EDTA	Z - Other (specify)		
				Other:			
Analysis Requested							
00219 - BTX 8021							
Sample Identification		Sample Date	Sample Time	Sample Type (C=core, G=grab)	Matrix (Water, Oil, O/W Emulsion, Air)	Special Instructions/Note:	
MW-1*	11/16	1330		Water	X	# No Preservative	
MW-2*		1335		Water	ice	# Unpreserved	
MW-4		NS		Water	ice	# will be shipped in dry ice	
MW-7		1340		Water	ice		
MW-8*		NS		Water	ice		
MW-11*		1345		Water	ice	# Unpreserved	
TRIP Blank		-		Water			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab							
Special Instructions/QC Requirements:							
Possible Hazard Identification:		<input checked="" type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Requisitioned by:		Date:	Time:	Method of Shipment:			
Requisitioned by:	<u>U-1016</u>	Date/Time:	4/15/16 1530	Received By:	4/16/16 0909	Company:	Company
Requisitioned by:		Date/Time:		Received By:		Company:	Company
Custody Seal intact:	<input checked="" type="checkbox"/> Yes \ No	Custody Seal No.:	24°C JHC				
Cooler Temperatures, °C and Other Remarks:							

Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-120372-1

Login Number: 120372

List Source: TestAmerica Pensacola

List Number: 1

Creator: Crawford, Lauren E

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4°C IR-6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive
Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-128677-1

Client Project/Site: Knight #1

For:

MWH Americas Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner

Madonna Myers

Authorized for release by:

10/26/2016 9:47:51 AM

Madonna Myers, Project Manager II
(615)796-1870
madonna.myers@testamericainc.com

Designee for

Carol Webb, Project Manager II
(850)471-6250
carol.webb@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Job ID: 400-128677-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-128677-1

Comments

No additional comments.

Receipt

The samples were received on 10/13/2016 9:39 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

GC VOA

Method(s) 8021B: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following samples were analyzed after 7 days from sampling: MW-7 (400-128677-3).

Method(s) 8021B: The result for Xylenes, Total exceeded the linear range of the instrument for sample MW-7 (400-128677-3). The reanalysis was not performed within 7 days and the pH was >2. Therefore, the original analysis is reported as primary and the reanalysis is reported as secondary for this analyte.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Client Sample ID: MW-1

Lab Sample ID: 400-128677-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	110		5.0	ug/L	5		8021B	Total/NA
Ethylbenzene	460		5.0	ug/L	5		8021B	Total/NA
Xylenes, Total	100		25	ug/L	5		8021B	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-128677-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.0		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-128677-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	81		2.0	ug/L	2		8021B	Total/NA
Ethylbenzene	320		2.0	ug/L	2		8021B	Total/NA
Xylenes, Total	1700		10	ug/L	2		8021B	Total/NA
Xylenes, Total - DL	1600		25	ug/L	5		8021B	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-128677-4

No Detections.

Client Sample ID: MW-11

Lab Sample ID: 400-128677-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1100		20	ug/L	20		8021B	Total/NA
Ethylbenzene	280		20	ug/L	20		8021B	Total/NA
Xylenes, Total	2000		100	ug/L	20		8021B	Total/NA

Client Sample ID: TB-3

Lab Sample ID: 400-128677-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128677-1	MW-1	Water	10/11/16 17:16	10/13/16 09:39
400-128677-2	MW-2	Water	10/11/16 17:21	10/13/16 09:39
400-128677-3	MW-7	Water	10/11/16 17:27	10/13/16 09:39
400-128677-4	MW-8	Water	10/11/16 17:37	10/13/16 09:39
400-128677-5	MW-11	Water	10/11/16 17:48	10/13/16 09:39
400-128677-6	TB-3	Water	10/11/16 00:00	10/13/16 09:39

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Client Sample ID: MW-1

Date Collected: 10/11/16 17:16

Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-1

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	110		5.0	ug/L			10/18/16 02:50	5
Ethylbenzene	460		5.0	ug/L			10/18/16 02:50	5
Toluene	<25		25	ug/L			10/18/16 02:50	5
Xylenes, Total	100		25	ug/L			10/18/16 02:50	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	101		78 - 124				10/18/16 02:50	5

Client Sample Results

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Client Sample ID: MW-2

Date Collected: 10/11/16 17:21

Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-2

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0		1.0	ug/L		10/18/16 03:24		1
Ethylbenzene	<1.0		1.0	ug/L		10/18/16 03:24		1
Toluene	<5.0		5.0	ug/L		10/18/16 03:24		1
Xylenes, Total	<5.0		5.0	ug/L		10/18/16 03:24		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)		94		78 - 124			10/18/16 03:24	1

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Client Sample ID: MW-7

Date Collected: 10/11/16 17:27

Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-3

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	81		2.0	ug/L			10/18/16 03:58	2
Ethylbenzene	320		2.0	ug/L			10/18/16 03:58	2
Toluene	<10		10	ug/L			10/18/16 03:58	2
Xylenes, Total	1700		10	ug/L			10/18/16 03:58	2
Surrogate						Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (pid)</i>	101		78 - 124				10/18/16 03:58	2

Method: 8021B - Volatile Organic Compounds (GC) - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1600		25	ug/L			10/19/16 16:12	5
Surrogate						Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (pid)</i>	103		78 - 124				10/19/16 16:12	5

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Client Sample ID: MW-8

Date Collected: 10/11/16 17:37

Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-4

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/18/16 04:32	1
Ethylbenzene	<1.0		1.0	ug/L			10/18/16 04:32	1
Toluene	<5.0		5.0	ug/L			10/18/16 04:32	1
Xylenes, Total	<5.0		5.0	ug/L			10/18/16 04:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	93		78 - 124				10/18/16 04:32	1

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Client Sample ID: MW-11

Date Collected: 10/11/16 17:48

Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-5

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1100		20	ug/L			10/18/16 05:06	20
Ethylbenzene	280		20	ug/L			10/18/16 05:06	20
Toluene	<100		100	ug/L			10/18/16 05:06	20
Xylenes, Total	2000		100	ug/L			10/18/16 05:06	20
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	99		78 - 124			10/18/16 05:06	20	

Client Sample Results

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Client Sample ID: TB-3

Date Collected: 10/11/16 00:00

Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-6

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/18/16 05:40	1
Ethylbenzene	<1.0		1.0	ug/L			10/18/16 05:40	1
Toluene	<5.0		5.0	ug/L			10/18/16 05:40	1
Xylenes, Total	<5.0		5.0	ug/L			10/18/16 05:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	94		78 - 124				10/18/16 05:40	1

QC Association Summary

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

GC VOA

Analysis Batch: 326994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128677-1	MW-1	Total/NA	Water	8021B	
400-128677-2	MW-2	Total/NA	Water	8021B	
400-128677-3	MW-7	Total/NA	Water	8021B	
400-128677-4	MW-8	Total/NA	Water	8021B	
400-128677-5	MW-11	Total/NA	Water	8021B	
400-128677-6	TB-3	Total/NA	Water	8021B	
MB 400-326994/5	Method Blank	Total/NA	Water	8021B	
LCS 400-326994/1003	Lab Control Sample	Total/NA	Water	8021B	
400-128594-C-1 MS	Matrix Spike	Total/NA	Water	8021B	
400-128594-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 327303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128677-3 - DL	MW-7	Total/NA	Water	8021B	
MB 400-327303/4	Method Blank	Total/NA	Water	8021B	
LCS 400-327303/1002	Lab Control Sample	Total/NA	Water	8021B	
400-128823-B-1 MS	Matrix Spike	Total/NA	Water	8021B	
400-128823-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

QC Sample Results

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-326994/5

Matrix: Water

Analysis Batch: 326994

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<1.0		1.0	ug/L			10/17/16 12:55	1
Ethylbenzene	<1.0		1.0	ug/L			10/17/16 12:55	1
Toluene	<5.0		5.0	ug/L			10/17/16 12:55	1
Xylenes, Total	<5.0		5.0	ug/L			10/17/16 12:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	95		78 - 124		10/17/16 12:55	1

Lab Sample ID: LCS 400-326994/1003

Matrix: Water

Analysis Batch: 326994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	
Benzene	50.0	49.0		ug/L		98	85 - 115
Ethylbenzene	50.0	50.9		ug/L		102	85 - 115
Toluene	50.0	50.2		ug/L		100	85 - 115
Xylenes, Total	150	151		ug/L		101	85 - 115

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	99		78 - 124			

Lab Sample ID: 400-128594-C-1 MS

Matrix: Water

Analysis Batch: 326994

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec
Benzene	<1.0		50.0	54.8		ug/L	110	44 - 150
Ethylbenzene	<1.0		50.0	54.8		ug/L	110	70 - 142
Toluene	<5.0		50.0	54.3		ug/L	109	69 - 136
Xylenes, Total	<5.0		150	162		ug/L	108	68 - 142

Surrogate	MS	MS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	99		78 - 124			

Lab Sample ID: 400-128594-C-1 MSD

Matrix: Water

Analysis Batch: 326994

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	RPD
Benzene	<1.0		50.0	55.7		ug/L	111	44 - 150
Ethylbenzene	<1.0		50.0	56.2		ug/L	112	70 - 142
Toluene	<5.0		50.0	55.5		ug/L	111	69 - 136
Xylenes, Total	<5.0		150	166		ug/L	111	68 - 142

Surrogate	MSD	MSD	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	99		78 - 124			

TestAmerica Pensacola

QC Sample Results

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 400-327303/4

Matrix: Water

Analysis Batch: 327303

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<1.0		1.0	ug/L			10/19/16 09:45	1
Ethylbenzene	<1.0		1.0	ug/L			10/19/16 09:45	1
Toluene	<5.0		5.0	ug/L			10/19/16 09:45	1
Xylenes, Total	<5.0		5.0	ug/L			10/19/16 09:45	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	94		78 - 124		10/19/16 09:45	1

Lab Sample ID: LCS 400-327303/1002

Matrix: Water

Analysis Batch: 327303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	
Benzene	50.0	42.7		ug/L		85	85 - 115
Ethylbenzene	50.0	44.7		ug/L		89	85 - 115
Toluene	50.0	44.1		ug/L		88	85 - 115
Xylenes, Total	150	133		ug/L		89	85 - 115

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	98		78 - 124			

Lab Sample ID: 400-128823-B-1 MS

Matrix: Water

Analysis Batch: 327303

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec
Benzene	<1.0		50.0	54.4		ug/L		109
Ethylbenzene	<1.0		50.0	55.6		ug/L		111
Toluene	<5.0		50.0	55.3		ug/L		111
Xylenes, Total	<5.0		150	164		ug/L		110

Surrogate	MS	MS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	101		78 - 124			

Lab Sample ID: 400-128823-B-1 MSD

Matrix: Water

Analysis Batch: 327303

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	RPD
Benzene	<1.0		50.0	56.2		ug/L		3
Ethylbenzene	<1.0		50.0	56.1		ug/L		16
Toluene	<5.0		50.0	55.6		ug/L		1
Xylenes, Total	<5.0		150	166		ug/L		15

Surrogate	MSD	MSD	Limits	Prepared	Analyzed	RPD
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	101		78 - 124			

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Client Sample ID: MW-1

Date Collected: 10/11/16 17:16
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		5	5 mL	5 mL	326994	10/18/16 02:50	GRK	TAL PEN

Instrument ID: CH_JOAN

Client Sample ID: MW-2

Date Collected: 10/11/16 17:21
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	326994	10/18/16 03:24	GRK	TAL PEN

Instrument ID: CH_JOAN

Client Sample ID: MW-7

Date Collected: 10/11/16 17:27
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		2	5 mL	5 mL	326994	10/18/16 03:58	GRK	TAL PEN
Total/NA	Analysis	8021B	DL	5	5 mL	5 mL	327303	10/19/16 16:12	SAB	TAL PEN

Instrument ID: CH_JOAN

Client Sample ID: MW-8

Date Collected: 10/11/16 17:37
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	326994	10/18/16 04:32	GRK	TAL PEN

Instrument ID: CH_JOAN

Client Sample ID: MW-11

Date Collected: 10/11/16 17:48
Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		20	5 mL	5 mL	326994	10/18/16 05:06	GRK	TAL PEN

Instrument ID: CH_JOAN

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Client Sample ID: TB-3

Date Collected: 10/11/16 00:00

Date Received: 10/13/16 09:39

Lab Sample ID: 400-128677-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	326994	10/18/16 05:40	GRK	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: MWH Americas Inc

Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Method Summary

Client: MWH Americas Inc
Project/Site: Knight #1

TestAmerica Job ID: 400-128677-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Jah PM: 11

Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671



Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-128677-1

SDG Number:

Login Number: 128677

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hughes, Nicholas T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6°C - IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	