December 2, 2020

Mr. Duane Newell/Regional Response Team (RRT)
U.S. EPA Region 8
1595 Wynkoop Street
Denver, Colorado 80202

Subject: **Groundwater Monitoring Report – 2020 Annual Event**
JC Hunt – Wolf Creek Pass Spill
US Highway 160 Milepost 179.5
Apex Project No. 4910

Dear Mr. Newell:

On behalf of JC Hunt Company, Inc., Apex Companies, LLC (Apex) is providing you with this annual groundwater monitoring report for work performed recently at the above-referenced location (Figure 1). This report provides: (1) information on the environmental setting; (2) a summary of the site background; (3) a discussion of site lithology and hydrogeology; (4) a summary of the nature and extent of hydrocarbons; (5) a summary of site remediation activities; (6) a summary of groundwater monitoring performed in October 2020; and (7) a summary of remediation system decommissioning.

Environmental Setting

A gasoline tanker truck spill occurred at the west side of mile marker 179.5 on US Highway 160, approximately 12 miles northeast of Wolf Creek Pass and 7 miles southwest of South Fork, Colorado, in November 2009. The spill occurred at an elevation of approximately 8,500 feet above sea level. The terrain in the area is mountainous and rocky, with vertical cliffs immediately west of the highway, and a steep rip-rap slope dropping approximately 15 to 20 feet in ground surface level, just east of the highway. A wetlands area with shrubs, grasses, and small trees is present below and to the east of the highway and borders a stream to the east (South Fork of the Rio Grande River). The area receives heavy snowfall during the winter and early spring months, making site work difficult during that time of year.

Site Background

Release Summary and Emergency Response

The gasoline tanker truck spill resulted in the release of approximately 3,800 gallons of gasoline to the subsurface adjacent to US Highway 160 in November 2009. As a result, a dissolved gasoline hydrocarbon plume formed under the highway, and to the east of the spill location. Total fluids recovery (TFR) was initiated soon after the spill to recover both mobile non-aqueous phase liquid (NAPL) and groundwater with dissolved hydrocarbons, and many TFR events have been

conducted since then. An interceptor trench was installed in the wetlands area to prevent NAPL migration to the adjacent South Fork of the Rio Grande River and to assist with recovery via TFR. No mobile NAPL has been observed at any monitoring locations since the spring of 2010. Source area soil along the northwest side of the highway was excavated to a depth of approximately two feet, disposed of offsite, and the excavation area was backfilled with clean soil.

Well Installation and Soil Sampling

Monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 were installed using Overburden Drilling EXcentric (ODEX) method along the right-of-way of US Highway 160 between November 2009 and July 2012. Initial wetlands area monitoring wells were installed relatively shallow, and due to the difficulty with drill rig access at the time, were constructed using hand augering or digging with a mini-excavator (wells T-1 through T-9 and RW-1 through RW-3). Wells were completed using polyvinyl chloride (PVC) well casings and native backfill. Regular groundwater water sampling has occurred at this site since the latter part of 2009 (Table 1). Surface water sampling began in 2009 but was discontinued in August 2016, per U.S. Environmental Protection Agency (EPA) approval, as dissolved benzene concentrations in samples collected from all surface water locations had been below laboratory detection limits since November 2010.

Apex oversaw the installation of three additional monitoring wells to further define subsurface impacts in the wetlands area (MW-6, MW-7, and MW-8), and six oxygen biosparge pilot test wells (OX-1, OX-2, MP-1A/B, and MP-2A/B) in June and July 2012. Pilot test wells were placed within proximity of existing groundwater monitoring wells and areas where dissolved petroleum hydrocarbon impacts appeared to be highest within the wetlands. Apex installed the monitoring and pilot test wells with either ODEX or hollow stem auger (HSA) technology to ensure high-quality completions. Monitoring well constructions in the wetlands include stick-up casings and steel outer protective covers, allowing ease in access and sampling of the wells. Soil lithology within the wetlands area consists primarily of alluvial deposits: silty, sandy gravel with cobbles and a high clay content.

Soil sampling at selected locations was conducted to further define subsurface hydrocarbon impacts in the wetlands in November 2012. Sample locations included excavation pits and selected drainage channels, as well as locations along the bottom of the northern transect of the interceptor trench. Soil screening and sampling targeted the soil/groundwater interface for potential hydrocarbon impacts at depths of approximately 3 to 5 feet below grade. Soil was typically sampled a few inches to a foot below, or adjacent to, exposed soil at pit or trench bottoms. The soil screening and sampling data in the wetlands suggested that only relatively low levels of hydrocarbons were present in soil near the soil/groundwater interface within the extent of the dissolved hydrocarbon plume. Soil sample results are presented in Figure 2. The complete set of historical soil sampling data is included in the Soil Sampling Activities report, dated December 21, 2012.

Chemical Oxidation Infiltration Events

Apex performed two chemical oxidation infiltration events along the westbound right-of-way of US Highway 160 (the source area). Apex infiltrated 5,000-gallons and 6,500-gallons of a 12 percent hydrogen peroxide solution stabilized with sodium phytate in September and November of 2012, respectively. Analytical results from groundwater sampling after the infiltration work showed some benzene and hydrocarbon reductions, particularly at wells nearest to the infiltration area. Samples collected from wells in the wetlands did not show any significant changes in dissolved hydrocarbon concentrations, and it is likely the wells were beyond the range of influence of the infiltration events. Overall, the reduction in dissolved benzene concentrations in samples collected from some roadside monitoring wells before and after the infiltration events suggested a region of remedial influence that extended under the highway, and just into the upgradient portion of the wetlands.

Site Restoration

In May 2013, all pits, holes, and trenches previously excavated were backfilled and compacted to begin restoring the site to natural conditions, maximize the effectiveness of the planned remediation system, and allow proper system operation. Following removal of the plastic liner along the interceptor trench sidewall, the interceptor trench and the 3-foot diameter recovery holes in the treatment area were abandoned and filled. Most of the native vegetation has recovered throughout the wetlands area since then.

Lithology and Hydrogeology

Subsurface soil in the vicinity of the spill location (along US Highway 160) have been characterized as tuff bedrock, a very hard and competent bedrock composed of volcanic ash deposits. Cliffs composed of tuff bedrock are visible immediately to the west of the highway and spill location. A substantial amount of riprap and other fill materials are present under the highway to provide structural support for the roadway. Alluvial materials (clayey sands, silts, gravels, and cobbles) are present in shallow, wetland area soil, underlain by bedrock. Though hydraulic conductivity testing has not been conducted at the site, it is likely that conductivities and groundwater velocities are relatively low, based on apparent hydrogeology and the high percentage of clayey fines encountered during drilling and sampling in the wetlands. Recharge of the deeper pilot test wells (OX-1, OX-2, MP-1B, and MP-2B) during well development was relatively slow, and some pilot test wells (OX-1 and MP-1B) were still not fully recovered one month after installation. Cross-sections showing soil types through the area of investigation are presented in Figures 3 and 4.

Nature and Extent of Hydrocarbon Impacts

Gasoline has impacted soil and groundwater and resulted in a dissolved-phase plume that extends into the wetlands east of the highway. Based on recent sampling results, benzene and other petroleum hydrocarbons are present near the source area by the highway, though

hydrocarbon concentrations are much lower in samples collected from the wetland area wells (Table 1). Hydrocarbon concentrations in samples collected from most wells decreased substantially in the first few months after the spill due to TFR and natural attenuation, and reductions have been accelerated by chemical oxidation infiltrations and operation of a full-scale bioremediation system. The result of these efforts is that the hydrocarbon plume has attenuated substantially in size and concentration, and many previously impacted wells now have relatively low to non-detectable levels of hydrocarbons in groundwater samples.

Remediation System Summary

Apex operated a full-scale oxygen biosparge system between August 8, 2013 and November 26, 2014 (Figure 1). The system was comprised of 20 oxygen injection/biosparge wells screened at depths of approximately 12 to 15 feet below ground surface. Each biosparge well was connected to system control equipment via tubing housed in aboveground PVC conduit. Individual biosparge well flow rates operated at approximately 2.5 to 5 standard cubic feet per hour (scfh) of oxygen, and biosparge pressures ranged from approximately 2 to 5 pounds per square inch (psi). Cleanup goals were largely attained by the fourth quarter (Q4) 2014, and the system was shut down on November 26, 2014 to evaluate potential rebound and readiness for post-operation monitoring.

Dissolved oxygen (DO) and oxidation-reduction potential (ORP) concentrations remained elevated in wetland area monitoring wells in the spring of 2015, in spite of the bioremediation system being off for over 5 months. The elevated DO levels were likely due to low rates of oxygen consumption related to very low concentrations of dissolved hydrocarbons remaining in the wetlands, combined with naturally high background DO (typically in the range of 6 to 8 mg/L). Elevated DO will continue to promote biodegradation of remaining dissolved hydrocarbons over time.

The remediation system was restarted on May 5, 2015 at the request of the EPA. The biosparging system ran continuously throughout the remainder of the second quarter and into the fourth quarter of 2015. Per EPA approval, the system was permanently shut off on November 18, 2015.

At the direction of the EPA, Apex initiated bi-weekly sampling of the wetlands area monitoring wells (MW-6, MW-7, and T-2) on May 4, 2016. The purpose of the bi-weekly sampling was to closely monitor wetland area groundwater conditions and evaluate the need for further active remediation. Dissolved benzene concentrations in samples collected from wells MW-6, MW-7, and T-2 remained below or only slightly above clean-up goals through Q4 2016. Bi-weekly sampling was discontinued in October 2016, per EPA approval.

After EPA approval, Apex decommissioned the oxygen biosparge remediation system between August 22 and 23, 2018. Apex removed the system manifold cabinet, including the solar photovoltaic panel, along with approximately 1,000 feet of 2-inch, schedule 40 PVC conduit and oxygen supply tubing. Additionally, Apex abandoned 18 oxygen biosparge remediation wells (OX-1, OX-2, and OX-5 through OX-20) per Colorado Division of Water Resources (DWR) protocol

and removed all respective flush-mount well boxes. Biosparge wells OX-3 and OX-4 (previously MP-1B and MP-2B) were left in-place for future groundwater sampling, as needed.

Groundwater Monitoring – 2020 Annual Event

As part of the August of 2020 annual sampling event, Apex contacted the Colorado Department of Transportation (CDOT) regional manager to notify them of the required lane closure for the sampling. The regional manager indicated that Highway 160 was being repaved and coordination with the paving company would be required for traffic control, due to the limited number of allowable lane closures in the area. Due to ongoing multiple lane closures associated with paving, guard rail replacement, striping and other paving related activities, Apex was not able to gain access and conduct the groundwater sampling event until early October.

In September, Apex personnel conducted a site visit while performing other work in the general area and noted that monitoring wells MW-1 through MW-5 had been paved over. As part of the October 8, 2020 sampling event, Apex was able to locate and set new flush mount manhole covers for monitoring wells MW-1 through MW-4. Monitoring well MW-5 could not be located and is presumed to have been destroyed.

On October 8, 2020 a groundwater sample was collected from one site monitoring well, MW-1. The groundwater sample was analyzed for dissolved benzene, toluene, ethylbenzene, total xylenes (BTEX), and total volatile petroleum hydrocarbons (TVPH).

The dissolved benzene concentration in the sample collected from well MW-1 (historically the most impacted well) decreased relative to the August 2019 sampling event, from 76.6 µg/L to not detected. The dissolved benzene concentration in the samples collected from well MW-1 have historically been inversely proportional to groundwater elevation. The groundwater elevation in monitoring well MW-1 decreased by approximately 2.7 feet in October 2020, relative to the last sampling event in August 2019. Depth to groundwater remains within the historically observed range of 18 and 22 feet below top-of-casing. Groundwater sample results are presented on Figure 5. Laboratory correspondence is attached.

Summary and Recommendations for Future Work

Historical groundwater sampling results suggest steady declines in dissolved hydrocarbons at all site wells due to bioremediation in the wetlands, chemical oxidation work in the source area, and ongoing natural attenuation. Elevated dissolved oxygen concentrations historically observed in nearly all roadside and wetlands area monitoring wells will continue to promote biodegradation of remaining petroleum hydrocarbons over time. Dissolved benzene concentrations show an overall decreasing trend, and the remediation system achieved cleanup of the wetlands to the maximum extent practicable.

As previously stated, the oxygen biosparge remediation system was decommissioned in August 2018, as dissolved benzene concentrations in samples collected from wetland area monitoring wells continued to demonstrate decreasing trends. Apex performed the third annual groundwater sampling event of monitoring well MW-1 in October 2020, and dissolved benzene was not detected. Since the concentration of dissolved benzene, the remaining BTEX chemicals and TVPH were below detection levels, per the direction of the EPA, all wells should be sampled and analyzed to confirm site-side cleanup goals have been met. JC Hunt would like have Apex schedule the confirmation sampling event as soon as possible. The sampling event will include sampling monitoring wells MP-1A, MP-2A, MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and T-2.

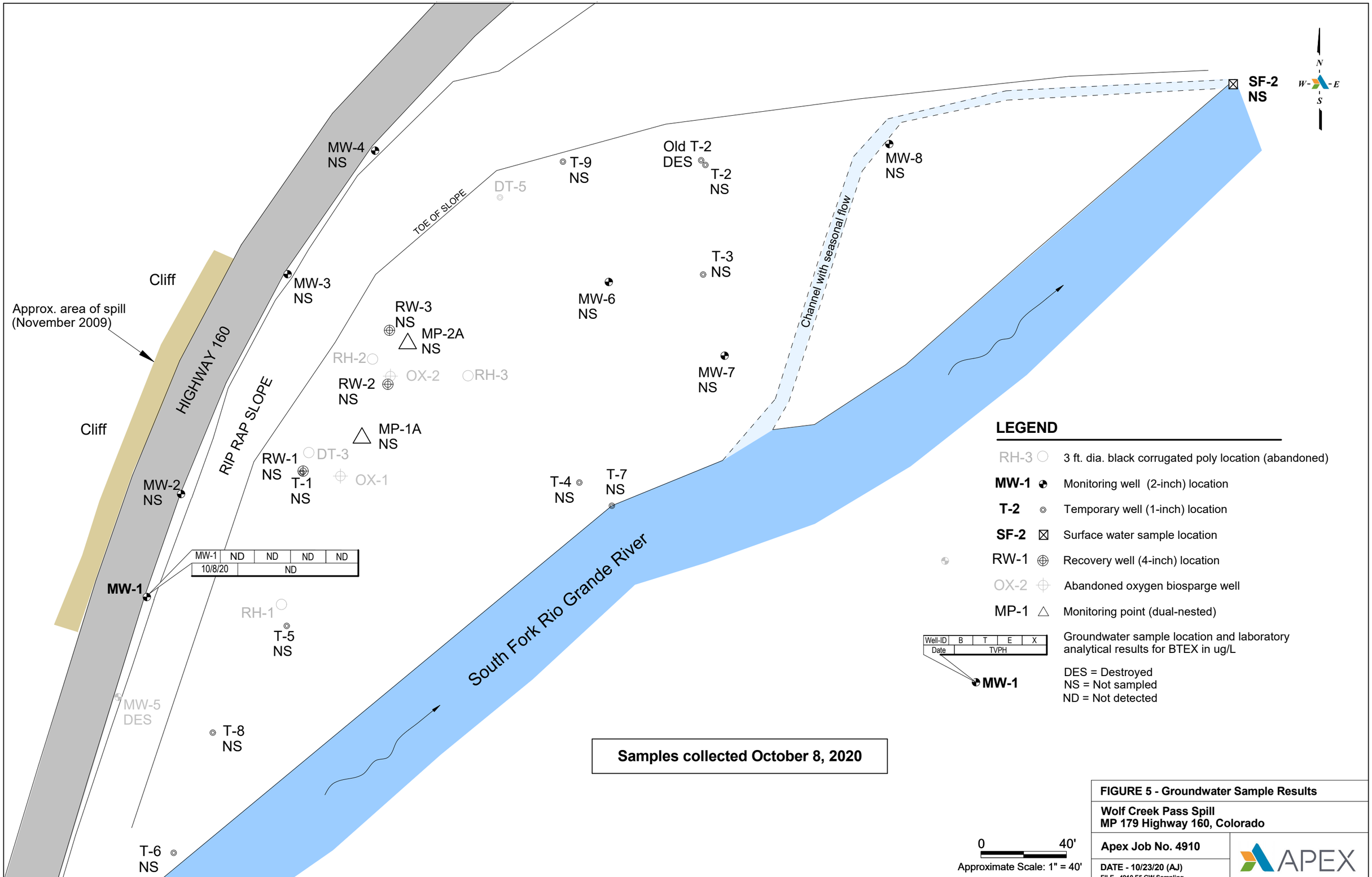
If you have any questions or need any other information pertaining to this project, please call me at (303) 242-8753.

Sincerely,
Apex Companies, LLC

Reviewed by:	Approved by:
Amelia Jacobs Project Engineer	Jason Grubb, P.G. Project Manager	K. Scott Pieratt, REP #44 Principal Scientist

Cc: Stephen Bouton, Action Environmental

Attachments:
- Figures
- Tables
- Laboratory Data


SF-2
NS
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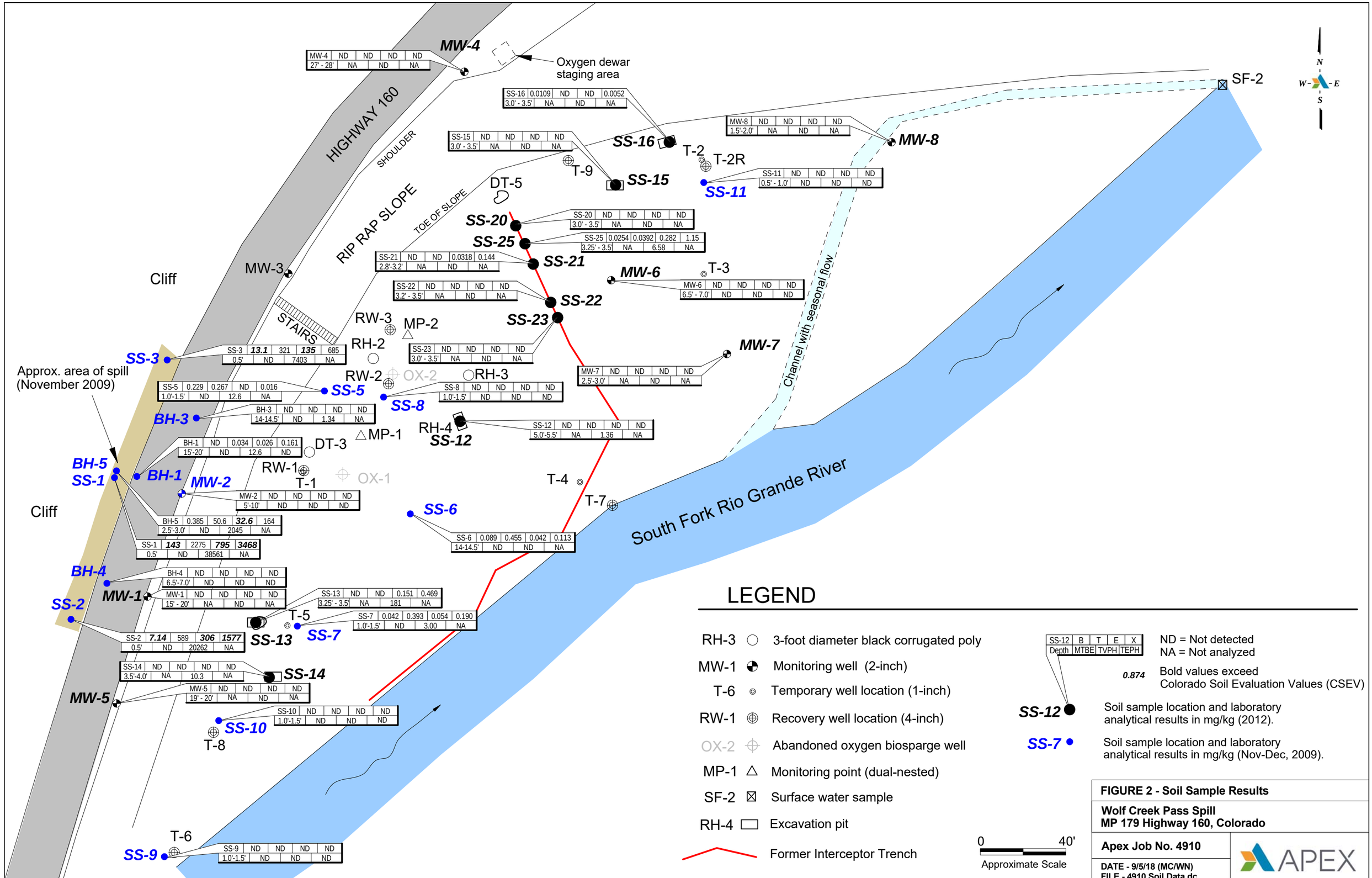
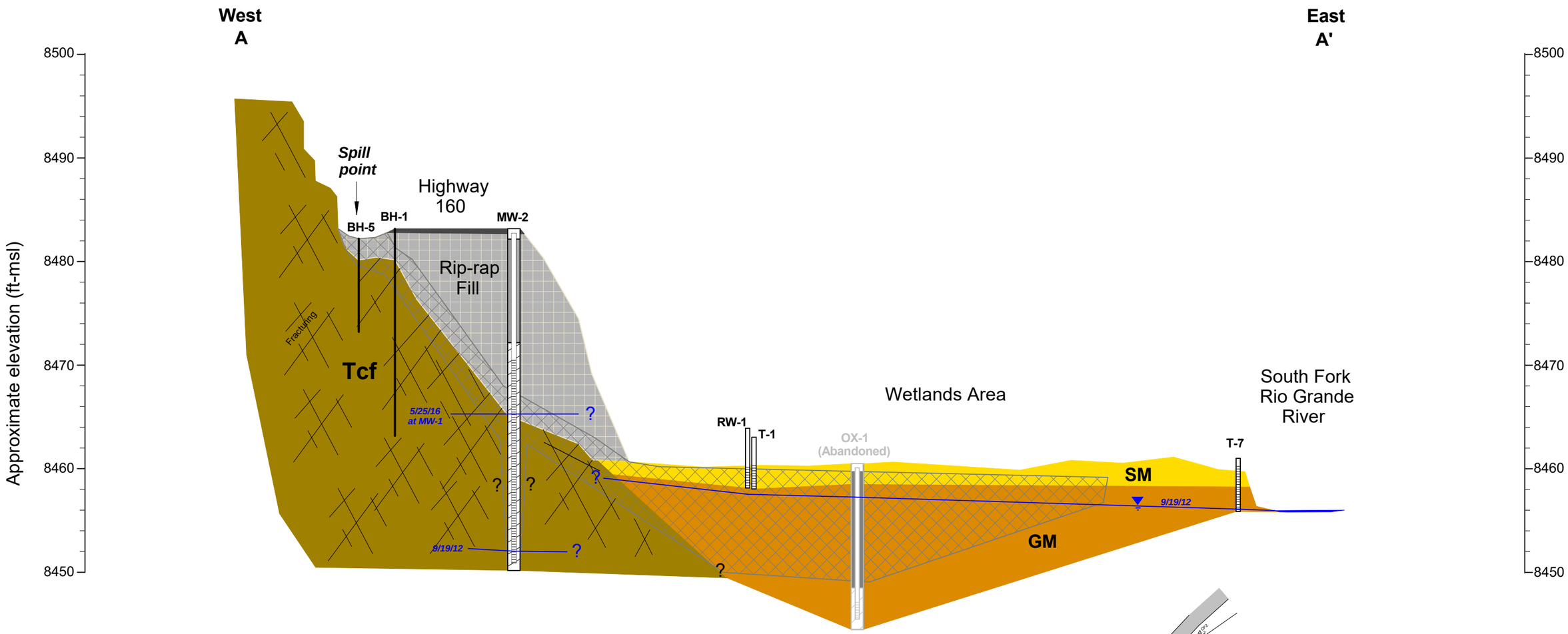
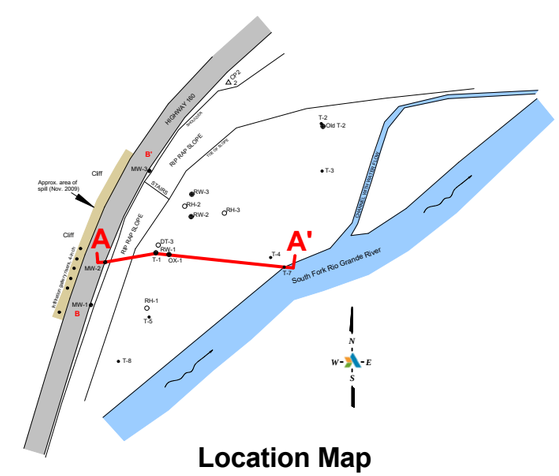
W
E
S
MW-4
NS
T-9
NS
Old T-2
DES
T-2
NS
MW-8
NS
DT-5
TOE OF SLOPE
Channel with seasonal flow
T-3
NS
MW-6
NS
Cliff
MW-3
NS
Approx. area of spill
(November 2009)
RW-3
NS
MP-2A
NS
HIGHWAY 160
RH-2
OX-2
RH-3
MW-7
NS
RW-2
NS
RIP RAP SLOPE
Cliff
MP-1A
NS
RW-1
NS
DT-3
T-1
NS
OX-1
T-4
NS
T-7
NS
MW-2
NS
MW-1 ND ND ND ND
10/8/20 ND
MW-1
RH-1
T-5
NS
South Fork Rio Grande River
MW-5
DES
T-8
NS
T-6
NS
LEGEND
RH-3 3 ft. dia. black corrugated poly location (abandoned)
MW-1 Monitoring well (2-inch) location
T-2 Temporary well (1-inch) location
SF-2 Surface water sample location
RW-1 Recovery well (4-inch) location
OX-2 Abandoned oxygen biosparge well
MP-1 Monitoring point (dual-nested)
Well-ID B T E X
Date TVPH
MW-1
Groundwater sample location and laboratory analytical results for BTEX in ug/L
DES = Destroyed
NS = Not sampled
ND = Not detected
Samples collected October 8, 2020
0 40'
Approximate Scale: 1" = 40'
FIGURE 5 - Groundwater Sample Results
Wolf Creek Pass Spill
MP 179 Highway 160, Colorado
Apex Job No. 4910
DATE - 10/23/20 (AJ)
FILE - 4910 F5 GW Sampling
APEX


HIGHWAY 160
SHOULDER
RIP RAP SLOPE
TOE OF SLOPE
STAIRS
Cliff
Cliff
Approx. area of spill (November 2009)
Oxygen dewar staging area
Channel with seasonal flow
South Fork Rio Grande River
MW-4 ND ND ND ND
27' - 28' NA ND NA
SS-16 0.0109 ND ND 0.0052
3.0' - 3.5' NA ND NA
SS-15 ND ND ND ND
3.0' - 3.5' NA ND NA
MW-8 ND ND ND ND
1.5'-2.0' NA ND NA
SS-11 ND ND ND ND
0.5' - 1.0' ND ND ND
SS-20 ND ND ND ND
3.0' - 3.5' NA ND NA
SS-25 0.0254 0.0392 0.282 1.15
3.25' - 3.5' NA 6.58 NA
SS-21 ND ND 0.0318 0.144
2.8'-3.2' NA ND NA
MW-6 ND ND ND ND
6.5' - 7.0' ND ND ND
SS-22 ND ND ND ND
3.2' - 3.5' NA ND NA
SS-23 ND ND ND ND
3.0' - 3.5' NA ND NA
MW-7 ND ND ND ND
2.5'-3.0' NA ND NA
SS-3 13.1 321 135 685
0.5' ND 7403 NA
SS-5 0.229 0.267 ND 0.016
1.0'-1.5' ND 12.6 NA
SS-8 ND ND ND ND
1.0'-1.5' ND ND ND
BH-3 ND ND ND ND
14-14.5' ND 1.34 NA
SS-12 ND ND ND ND
5.0'-5.5' NA 1.36 NA
BH-1 ND 0.034 0.026 0.161
15'-20' ND 12.6 ND
MW-2 ND ND ND ND
5'-10' ND ND ND
BH-5 0.385 50.6 32.6 164
2.5'-3.0' ND 2045 NA
SS-1 143 2275 795 3468
0.5' ND 38561 NA
SS-6 0.089 0.455 0.042 0.113
14-14.5' ND ND NA
BH-4 ND ND ND ND
6.5'-7.0' ND ND ND
MW-1 ND ND ND ND
15' - 20' NA ND NA
SS-13 ND ND 0.151 0.469
3.25' - 3.5' NA 181 NA
SS-7 0.042 0.393 0.054 0.190
1.0'-1.5' ND 3.00 NA
SS-2 7.14 589 306 1577
0.5' ND 20262 NA
SS-14 ND ND ND ND
3.5'-4.0' NA 10.3 NA
MW-5 ND ND ND ND
19' - 20' NA ND NA
SS-10 ND ND ND ND
1.0'-1.5' ND ND ND
SS-9 ND ND ND ND
1.0'-1.5' ND ND ND
MW-4
SF-2
SS-16
T-2
T-2R
T-9
SS-15
SS-11
MW-8
DT-5
SS-20
SS-25
SS-21
MW-3
MW-6
T-3
SS-22
SS-23
RW-3
MP-2
RH-2
MW-7
SS-3
RW-2
OX-2
RH-3
SS-5
SS-8
BH-3
RH-4
SS-12
MP-1
DT-3
BH-5
SS-1
BH-1
RW-1
T-1
OX-1
MW-2
T-4
T-7
SS-6
BH-4
MW-1
SS-2
T-5
SS-13
SS-7
SS-14
MW-5
SS-10
T-8
T-6
SS-9
N
W
E
S
LEGEND
RH-3 3-foot diameter black corrugated poly
MW-1 Monitoring well (2-inch)
T-6 Temporary well location (1-inch)
RW-1 Recovery well location (4-inch)
OX-2 Abandoned oxygen biosparge well
MP-1 Monitoring point (dual-nested)
SF-2 Surface water sample
RH-4 Excavation pit
Former Interceptor Trench
SS-12 B T E X
Depth MTBE TVPH TEPH
ND = Not detected
NA = Not analyzed
0.874 Bold values exceed Colorado Soil Evaluation Values (CSEV)
SS-12 Soil sample location and laboratory analytical results in mg/kg (2012).
SS-7 Soil sample location and laboratory analytical results in mg/kg (Nov-Dec, 2009).
0 40'
Approximate Scale
FIGURE 2 - Soil Sample Results
Wolf Creek Pass Spill
MP 179 Highway 160, Colorado
Apex Job No. 4910
DATE - 9/5/18 (MC/WN)
FILE - 4910 Soil Data.dc
APEX





Location Map

SCALE 20' 10'

LEGEND

Original estimated extent of impacted soil and groundwater based on PID, laboratory analytical data, and field observations prior to site remediation

LITHOLOGIC DESCRIPTIONS:

Qal - SM, GM

Qal - Alluvium: silt, clayey sand, gravel, cobbles, boulders, and peaty soil in valley bottoms. Generally colluvial in nature, grain size is generally coarse gravel to boulders, within a fine to medium clayey sand and silt matrix (>30% clay fines). Increase in cobbles and boulders below 2 feet (GM).

Rip-rap Fill - Generally boulder blocks of variable size with gravel and sand; with extreme open void space.

Tcf - Tcf - Fish Canyon Tuff: volcanic ash tuff; hard, strong, massive, fractured, non-foliated, fine to medium grained, light gray.

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APEX

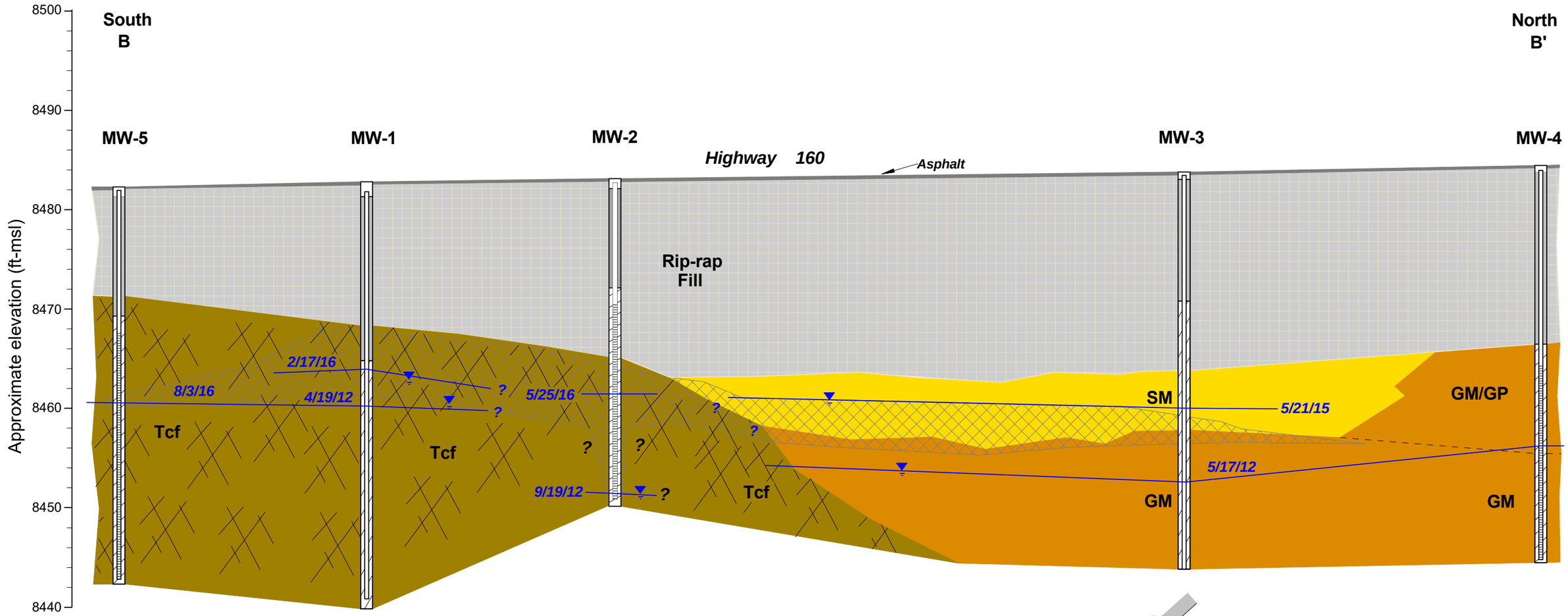
FIGURE 3
Geologic Cross-section A-A'

Wolf Creek Pass Spill
MP 179 Highway 160 - Wolf Creek Pass

Apex Job No. 4910

Revision Details:
REV # - 0
DATE -9/5/18 (MC/WN)
FILE - 4910-C

Figure 3



LEGEND

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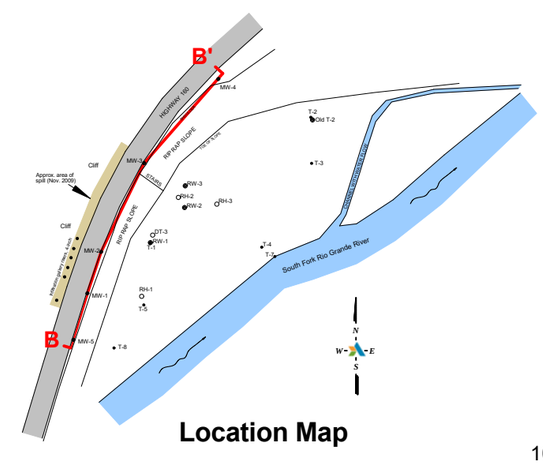

Location Map

SCALE 20' 10'

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APEX

FIGURE 4
Geologic Cross-section B-B'

Wolf Creek Pass Spill
MP 179 Highway 160 - Wolf Creek Pass

Apex Job No. 4910

Revision Details:
REV # - 0
DATE - 12/5/16 (MC/WN)
FILE - 4910-C

Figure 4

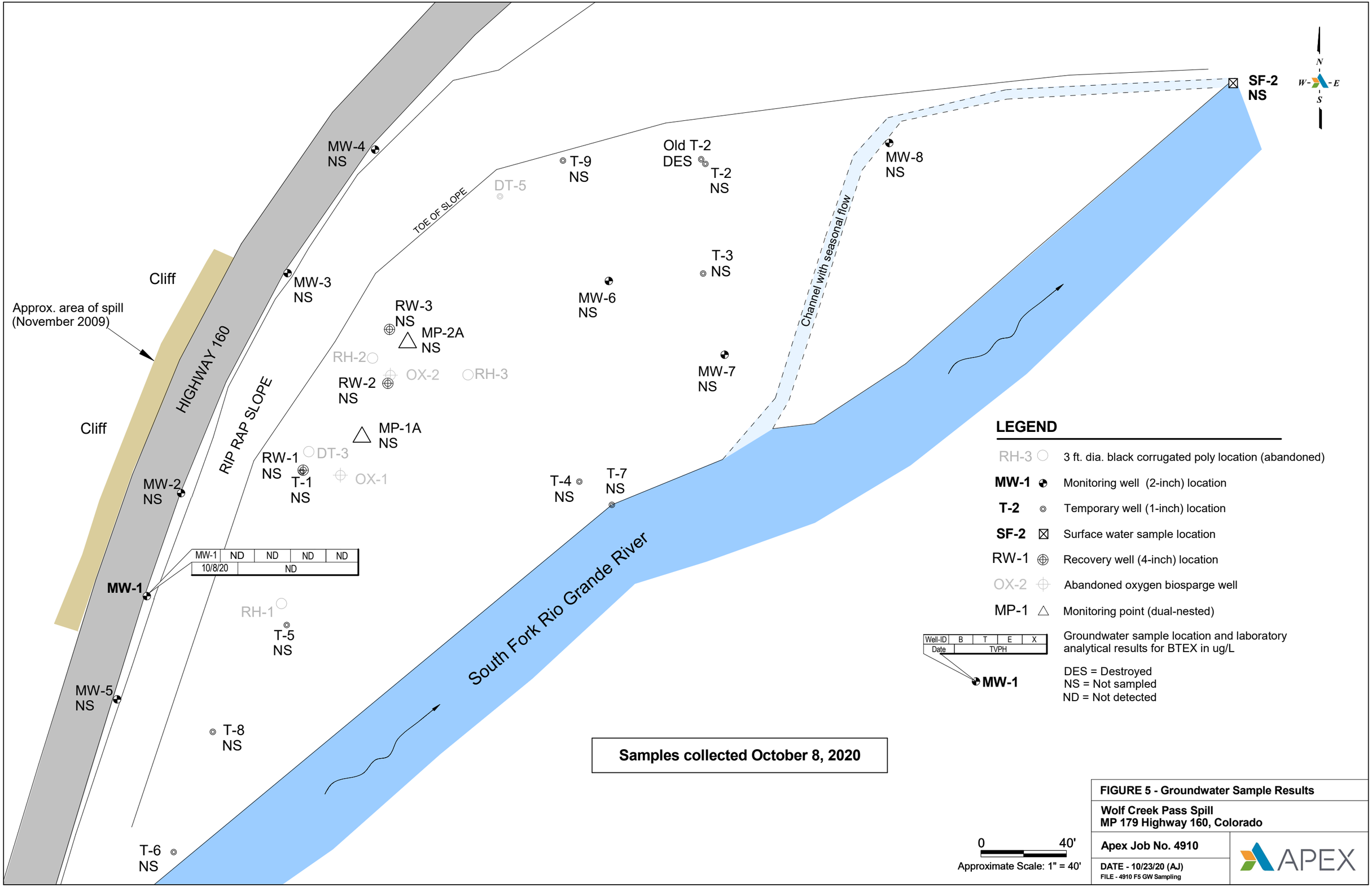
MW-4
NS
T-9
NS
Old T-2
DES
T-2
NS
MW-8
NS
SF-2
NS
N
W
E
S
DT-5
TOE OF SLOPE
Channel with seasonal flow
T-3
NS
MW-3
NS
Cliff
Approx. area of spill
(November 2009)
HIGHWAY 160
MW-6
NS
RW-3
NS
MP-2A
NS
RH-2
OX-2
RH-3
MW-7
NS
RW-2
NS
RIP RAP SLOPE
Cliff
MP-1A
NS
RW-1
NS
DT-3
T-1
NS
OX-1
T-4
NS
T-7
NS
MW-2
NS
MW-1 ND ND ND ND
10/8/20 ND
MW-1
RH-1
T-5
NS
South Fork Rio Grande River
MW-5
NS
T-8
NS
T-6
NS
LEGEND
RH-3 3 ft. dia. black corrugated poly location (abandoned)
MW-1 Monitoring well (2-inch) location
T-2 Temporary well (1-inch) location
SF-2 Surface water sample location
RW-1 Recovery well (4-inch) location
OX-2 Abandoned oxygen biosparge well
MP-1 Monitoring point (dual-nested)
Well-ID B T E X
Date TVPH
MW-1
Groundwater sample location and laboratory analytical results for BTEX in ug/L
DES = Destroyed
NS = Not sampled
ND = Not detected
Samples collected October 8, 2020
0 40'
Approximate Scale: 1" = 40'
FIGURE 5 - Groundwater Sample Results
Wolf Creek Pass Spill
MP 179 Highway 160, Colorado
Apex Job No. 4910
DATE - 10/23/20 (AJ)
FILE - 4910 F5 GW Sampling
APEX

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
10/5/2010	DT-3	**330**	**4,390**	392	**6,350**	35.5	-	-	-
10/19/2010	DT-3	**298**	**4,020**	218	**5,550**	33.6	-	-	-
11/18/2010	DT-3	**205**	**2,320**	7	**4,140**	30.2	-	-	-
7/1/2011	DT-3	**97**	**1,090**	220	**3,240**	23.6	-	-	-
7/14/2011	DT-3	**86**	**816**	33	**2,290**	14.8	-	-	-
7/28/2011	DT-3	**77**	**845**	<1.0	**3,040**	22.2	-	-	-
8/11/2011	DT-3	**90**	653	5	**1,700**	12	-	-	-
8/24/2011	DT-3	**97**	398	3	**1,440**	10.3	-	-	-
9/8/2011	DT-3	**84**	451	<1.0	1,290	18.8	-	-	-
9/22/2011	DT-3	**79**	607	5	**1,560**	14.8	-	-	-
10/6/2011	DT-3	**32**	307	<1.0	622	5.48	-	-	-
10/20/2011	DT-3	**62**	333	<1.0	**1,400**	13	-	-	-
11/3/2011	DT-3	**85**	619	9	**1,560**	13.8	-	-	-
11/18/2011	DT-3	**122**	**733**	10	**2,160**	14.8	-	-	-
12/15/2011	DT-3	**70**	309	<1.0	1,070	10.2	-	-	-
1/13/2012	DT-3	**51**	242	<1.0	1,010	11	-	-	-
2/9/2012	DT-3	**49**	281	<1.0	1,020	10.3	1.01	3.42	8457.88
3/13/2012	DT-3	**41**	297	4	865	5.53	0.54	-	-
4/4/2012	DT-3	**124**	**1,110**	121	1,390	12.5	1.04	1.45	8459.85
4/18/2012	DT-3	**157**	**843**	<1.0	**2,240**	12.7	0.075	2.05	8459.25
5/3/2012	DT-3	**81**	543	36	**1,960**	16.1	0.94	1.70	8459.60
5/16/2012	DT-3	**26**	53	<1.0	562	4.7	0.45	1.60	8459.70
6/15/2012	DT-3	**23**	87	<1.0	724	4.84	0.65	3.00	8458.30
7/19/2012	DT-3	**28**	349	242	1,290	8.4	1.76	3.62	8457.68
8/15/2012	DT-3	**24**	282	162	878	9.14	0.24	3.88	8457.42
9/19/2012	DT-3	**26**	246	186	1,030	7.28	0.83	3.98	8457.32
10/18/2012	DT-3	**20**	291	186	965	8.93	1.12	4.00	8457.30
12/12/2012	DT-3	**18**	98	181	920	3.57	1.74	3.40	8457.90
4/25/2013	DT-3	**16**	121	58	295	2.4	8.7	2.37	8458.93
5/13/2013	DT-3	Abandoned							
3/14/2012	DT-5	<1	2	<1	7	<0.5	7.68	-	-
7/19/2012	DT-5	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/25/2013	DT-5	<1.0	<1.0	<1.0	<1.0	<0.1	4.23	-	-
7/19/2012	MP-1A	**157**	**1,080**	242	**1,910**	13.1	1.2	3.00	-
8/15/2012	MP-1A	**-**	-	-	-	-	-	3.25	-
10/18/2012	MP-1A	**68.3**	309	265	1,210	10.7	16.32	3.35	-
12/12/2012	MP-1A	**-**	-	-	-	-	4.42	2.61	-
8/8/2013	MP-1A	**9.9**	111	201	1,080	12.8	0.85	2.58	-
11/13/2013	MP-1A	<4.0	90	149	1,130	9.48	26.48	3.06	-
5/15/2014	MP-1A	<4.0	11.1	80.1	474	4.57	19.84	1.17	-
8/6/2014	MP-1A	**2.2**	8.0	112	413	9.22	1.95	2.88	-
11/6/2014	MP-1A	1.6	5.2	62.6	371	5.92	4.64	2.73	-
12/3/2014	MP-1A	-	-	-	-	-	7.23	2.38	-
12/19/2014	MP-1A	-	-	-	-	-	4.99	2.39	
2/19/2015	MP-1A	<1.0	13.9	99.3	400	10.0	3.33	2.36	-
4/9/2015	MP-1A	**2.9**	10.6	93.4	397	9.19	3.73	1.53	-
5/21/2015	MP-1A	2.1	3.0	48.1	184	6.27	23.3	0.30	-
8/13/2015	MP-1A	<2.0	2.7	35.3	78.3	2.65	2.05	2.83	-
11/18/2015	MP-1A	<4.0	4.0	39.7	124.0	7.80	3.25	2.55	-

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
2/17/2016	MP-1A	<1.0	5.6	38.0	125	8.65	6.60	1.30	-
5/25/2016	MP-1A	2.14	3.48	45.5	129	8.07	3.42	0.05	-
8/3/2016	MP-1A	<1.00	1.45	22.6	37.6	6.97	2.45	3.18	-
11/16/2016	MP-1A	<1.0	1.9	19.2	40.1	8.08	4.24	3.38	-
4/26/2017	MP-1A	<1.0	<1.0	23.5	59.2	4.49	2.51	0.52	-
8/16/2017	MP-1A	<1.0	2.5	13.7	21.8	5.56	1.67	3.15	-
11/16/2017	MP-1A	<1.0	<1.0	10.6	21.6	3.82	2.33	3.17	-
5/16/2018	MP-1A	<1.0	2.3	14.4	28.7	8.45	0.64	0.83	-
12/12/2012	MP-1B	-	-	-	-	-	13.56	9.60	-
7/19/2012	MP-2A	**26.9**	**1,120**	**751**	**3,790**	17.9	0.61	2.96	-
8/15/2012	MP-2A	-	-	-	-	-	-	3.16	-
10/18/2012	MP-2A	-	-	-	-	-	1.9	3.25	-
12/12/2012	MP-2A	**81.5**	265	335	1,030	2.4	7.44	1.44	-
8/8/2013	MP-2A	**3.7**	6.0	9.4	23.6	0.441	13.59	2.41	-
11/13/2013	MP-2A	<1.0	<1.0	<1.0	<1.0	<0.100	3.28	2.85	-
5/15/2014	MP-2A	<1.0	6.8	6.8	48	0.334	24.64	1.20	-
8/6/2014	MP-2A	1.4	16.1	47.9	229	1.80	9.45	2.72	-
11/6/2014	MP-2A	<1.0	<1.0	<1.0	<1.0	<0.100	32.11	2.60	-
12/3/2014	MP-2A	-	-	-	-	-	14.12	2.05	-
12/19/2014	MP-2A	-	-	-	-	-	13.64	2.35	-
2/19/2015	MP-2A	**7.4**	66.2	241	566	7.63	5.76	2.30	-
4/9/2015	MP-2A	1.9	15.0	55.4	211	1.53	3.94	1.53	-
5/21/2015	MP-2A	<1.0	1.7	15.9	33	0.35	34.95	0.30	-
8/13/2015	MP-2A	<1.0	<1.0	<1.0	<1.0	<0.100	28.96	1.09	-
11/18/2015	MP-2A	<4.0	<4.0	<4.0	8.2	<0.4	15.65	2.24	-
2/17/2016	MP-2A	**4.2**	5.4	25.6	67.2	1.52	8.98	1.10	-
5/25/2016	MP-2A	<1.00	<1.00	<1.00	1.54	0.159	5.76	0.00	-
8/3/2016	MP-2A	<1.00	<1.00	<1.00	<1.00	<0.100	2.15	2.75	-
11/16/2016	MP-2A	<1.0	<1.0	<1.0	<1.0	<0.100	5.12	3.10	-
4/26/2017	MP-2A	<1.0	<1.0	<1.0	<1.0	<0.100	4.64	0.69	-
10/18/2012	MP-2B	**83.3**	248	467	602	7.8	1.9	3.40	-
1/13/2012	MW-1	**429**	**1,270**	10	**2,040**	16.6	2.23	20.40	8461.41
2/9/2012	MW-1	**83**	96	<1	218	1.61	10.36	20.18	8461.63
3/14/2012	MW-1	**124**	253	<1	462	3.06	7.92	18.58	8463.23
4/4/2012	MW-1	**125**	141	23	385	3.09	2.46	19.12	8462.69
4/19/2012	MW-1	**132**	210	<1.0	542	3.83	1.77	21.50	8460.31
5/3/2012	MW-1	**100**	117	<1.0	360	3.12	1.01	20.30	8461.51
5/17/2012	MW-1	**116**	105	<1.0	434	3.18	1.04	20.40	8461.41
6/15/2012	MW-1	**30**	3	<1.0	49	0.73	0.98	20.50	8461.31
7/19/2012	MW-1	**180**	191	124	728	6.49	0.99	20.25	8461.56
8/15/2012	MW-1	**187**	275	372	1,330	8.82	0.11	20.10	8461.71
9/19/2012	MW-1	**184**	203	215	817	6.13	0.58	20.27	8461.76
10/18/2012	MW-1	**288**	270	274	1,100	9.72	1.36	20.35	8461.68
12/12/2012	MW-1	**160**	197	278	**1,430**	4.59	1.42	20.75	8461.28
4/25/2013	MW-1	**132**	29.6	143	326	5.59	1.25	19.37	8462.66
6/13/2013	MW-1	**209**	31.0	115	267	7.75	2.20	20.65	8461.38
8/8/2013	MW-1	**151**	123.0	155	401	6.12	3.50	18.53	8463.50
11/13/2013	MW-1	**106**	16.0	20.5	93.6	4.85	3.11	19.75	8462.28
2/13/2014	MW-1	**134.0**	15.4	44.8	133	3.2	2.42	19.42	8462.61

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
5/15/2014	MW-1	**101**	9.7	21.6	82	3.79	2.34	18.33	8463.70
8/6/2014	MW-1	**143**	21.2	19.1	113	6.26	2.54	19.07	8462.96
11/6/2014	MW-1	**98.5**	4.3	5.9	54.6	2.34	5.72	19.05	8462.98
2/19/2015	MW-1	**84.7**	3.0	8.7	49.3	3.70	2.42	19.65	8462.38
5/21/2015	MW-1	**122**	5.9	8.7	34.4	3.51	2.42	18.40	8463.63
8/13/2015	MW-1	**9.45**	8.6	3.8	30.1	2.47	4.35	18.93	8463.10
11/18/2015	MW-1	**60.7**	3.5	1.3	12.8	2.97	2.69	18.85	8463.18
2/17/2016	MW-1	**42.3**	3.2	1.0	6.0	2.11	2.64	18.10	8463.93
5/25/2016	MW-1	**137**	6.94	6.63	14.0	2.53	2.46	18.30	8463.73
8/3/2016	MW-1	**159**	16.7	5.14	24.2	2.32	4.64	19.85	8462.18
11/16/2016	MW-1	**89.2**	1.6	6.3	20.8	0.97	2.76	20.20	8461.83
4/26/2017	MW-1	**77.8**	3.4	3.0	4.2	1.35	2.64	18.22	8463.81
8/16/2017	MW-1	**46.6**	1.5	1.0	5.4	0.838	2.11	18.90	8463.13
11/16/2017	MW-1	**40.2**	<1.0	2.48	6.67	0.609	1.75	18.62	8463.41
5/16/2018	MW-1	**16.9**	1.1	<1.0	<1.0	0.919	1.01	18.35	8463.68
8/22/2018	MW-1	**127**	1.7	23	11.6	0.873	1.29	20.01	8462.02
8/28/2019	MW-1	**77**	1.3	5	<1.0	0.702	0.43	18.83	8463.20
10/8/2020	MW-1	<1.0	<1.0	<1.0	<1.0	<0.100	6.76	21.57	8460.46
9/16/2011	MW-2	-	-	-	-	-	1.29	-	-
9/23/2011	MW-2	**1,220**	**6,880**	**556**	**4,570**	53.6	-	-	-
10/6/2011	MW-2	**2,390**	**15,200**	**1,310**	**8,030**	83.2	1.48	-	-
10/20/2011	MW-2	**2,870**	**25,100**	**2,580**	**13,900**	179	1.51	-	-
11/18/2011	MW-2	**2,720**	**23,700**	**2,510**	**14,000**	159	1.43	-	-
12/15/2011	MW-2	**1,330**	**12,900**	**937**	**7,920**	92	-	-	-
12/16/2011	MW-2	-	-	-	-	-	1.46	-	-
1/13/2012	MW-2	**947**	**9,890**	550	**3,760**	48.4	-	30.63	8452.06
2/9/2012	MW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/5/2012	MW-2	**695**	**8,510**	327	**9,560**	55.9	9.41	18.60	8464.09
4/19/2012	MW-2	**619**	**6,240**	213	**5,630**	38.8	5.29	29.70	8452.99
5/3/2012	MW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5/17/2012	MW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6/15/2012	MW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/19/2012	MW-2	**886**	**8,400**	**673**	**7,760**	26.8	1.82	30.68	8452.01
8/15/2012	MW-2	**631**	**7,450**	**581**	**7,440**	33	Insufficient	30.92	8451.77
9/19/2012	MW-2	**471**	**5,610**	482	**7,520**	25	2.25	31.11	8451.58
10/18/2012	MW-2	**402**	**4,480**	399	**6,900**	2.86	1.22	30.88	8451.81
12/12/2012	MW-2	**364**	**3,870**	312	**7,390**	11.8	1.32	30.88	8451.81
4/25/2013	MW-2	**328**	**3,940**	372	**5,580**	18.9	1.33	30.04	8452.65
6/13/2013	MW-2	**243**	**3,020**	274	**4,620**	26.4	2.42	29.90	8452.79
8/8/2013	MW-2	**120**	**1,440**	137	**3,380**	10	3.12	30.33	8452.36
11/13/2013	MW-2	**68**	**1,040**	106	**2,830**	16.2	2.64	29.77	8452.92
2/13/2014	MW-2	**45.2**	**856**	99.6	**2,700**	11.7	2.39	29.95	8452.74
5/15/2014	MW-2	**32.4**	**630**	97	**1,900**	9.61	2.13	29.13	8453.56
8/6/2014	MW-2	**24.9**	368	52.4	1,160	6.48	3.24	28.48	8454.21
11/6/2014	MW-2	**21.0**	253	54.6	732	5.11	5.42	28.33	8454.36
2/19/2015	MW-2	**9.2**	146	29.1	366	3.13	1.90	29.63	8453.06
5/21/2015	MW-2	**8.4**	43.5	17.6	212	1.46	2.33	28.18	8454.51
8/13/2015	MW-2	**9.8**	75.3	30.1	276	2.59	1.66	28.83	8453.86
11/18/2015	MW-2	**11.9**	83.2	26.6	259	1.87	2.32	28.52	8454.17

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
2/17/2016	MW-2	**9.6**	69.1	35.1	321	2.08	2.55	29.45	8453.24
5/25/2016	MW-2	**17.7**	82.3	43.0	339	1.76	2.11	21.30	8461.39
8/3/2016	MW-2	**21.2**	116	60.6	476	2.75	2.08	27.65	8455.04
11/16/2016	MW-2	4.4	7.1	10.2	124	0.85	1.96	28.95	8453.74
4/26/2017	MW-2	**16.9**	32.8	30.6	258	1.17	2.02	21.83	8460.86
8/16/2017	MW-2	**44.6**	1.3	1.0	5.1	0.85	3.34	24.88	8457.81
11/16/2017	MW-2	**19.4**	24.6	42.8	355	1.86	1.96	23.69	8459.00
5/16/2018	MW-2	**33.9**	91.6	81.9	586.0	2.45	2.42	24.93	8457.76
2/9/2012	MW-3	**31**	20	<1.0	69	99	4.34	26.45	8457.00
3/14/2012	MW-3	**95**	131	29.0	289	2.86	0.79	24.35	8459.10
4/4/2012	MW-3	<1.0	<1.0	<1.0	3	<0.5	1.86	22.85	8460.60
4/19/2012	MW-3	<1.0	<1.0	<1.0	<1.0	<0.5	1.52	24.50	8458.95
5/3/2012	MW-3	**8**	2	<1.0	14	<0.5	1.03	24.65	8458.80
5/17/2012	MW-3	**11.0**	3	<1.0	5	<0.5	1.74	31.00	8452.45
6/15/2012	MW-3	4	<1.0	<1.0	3	<0.5	2.1	26.20	8457.25
7/19/2012	MW-3	**44.1**	8	16.9	35	0.909	1.24	26.91	8456.54
8/15/2012	MW-3	**56.9**	20	30.4	46	1.27	0.12	27.19	8456.26
9/19/2012	MW-3	**106**	86	46.6	125	3.08	1.18	27.31	8456.21
10/18/2012	MW-3	**53.9**	56	32.5	76	2.33	1.51	27.39	8456.13
12/12/2012	MW-3	**47.6**	101	41.9	133	1.24	1.52	26.58	8456.94
4/25/2013	MW-3	**5.3**	4	14.2	25	0.967	2.42	24.83	8458.69
6/13/2013	MW-3	**23.8**	102	87.7	347	1.72	2.88	25.67	8457.85
8/8/2013	MW-3	**10.0**	24	21.2	36	1.21	3.34	26.40	8457.12
11/13/2013	MW-3	**5.1**	2.7	14.8	15.6	0.92	2.42	26.85	8456.67
2/13/2014	MW-3	**34.8**	36.1	95.5	301	1.45	2.52	25.70	8457.82
5/15/2014	MW-3	**6.6**	1.0	16.2	19	1.38	2.16	24.75	8458.77
8/6/2014	MW-3	2.8	1.0	7.8	9.9	0.555	3.77	26.60	8456.92
11/6/2014	MW-3	4.5	2.0	6.2	16.7	0.764	6.23	26.35	8457.17
2/19/2015	MW-3	**9.0**	<1.0	13.5	13.6	0.974	2.15	26.09	8457.43
5/21/2015	MW-3	**5.7**	<1.0	4.2	3.5	0.720	2.62	23.29	8460.08
8/13/2015	MW-3	<1.0	<1.0	7.0	6.0	0.338	4.39	26.32	8457.05
11/18/2015	MW-3	1.6	<1.0	3.6	3.8	0.752	2.84	25.85	8457.52
2/17/2016	MW-3	<1.0	<1.0	<1.0	<1.0	0.217	2.36	24.62	8458.75
5/25/2016	MW-3	1.45	<1.00	<1.00	<1.00	0.110	3.42	23.60	8459.77
8/3/2016	MW-3	**23.8**	1.56	10.0	7.43	0.426	1.98	26.85	8456.52
11/16/2016	MW-3	1.1	<1.0	1.2	<1.0	0.288	2.32	27.02	8456.35
4/26/2017	MW-3	1.6	<1.0	<1.0	<1.0	0.107	2.61	24.75	8458.62
8/16/2017	MW-3	1.1	<1.0	1.4	<1.0	0.161	2.76	26.65	8456.72
11/16/2017	MW-3	<1.0	<1.0	<1.0	<1.0	<0.100	3.65	27.20	8456.17
5/16/2018	MW-3	**11.2**	2.6	21.2	21.6	1.17	3.01	24.62	8458.75
7/19/2012	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	2.81	27.24	8456.59
8/15/2012	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	4.02	27.73	8456.10
9/19/2012	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	6.25	27.66	8456.22
10/18/2012	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	1.88	27.78	8456.10
12/12/2012	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	1.65	26.75	8457.13
4/25/2013	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	5.18	25.15	8458.73
6/13/2013	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	4.75	25.70	8458.18
8/8/2013	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	6.98	26.34	8457.54
11/13/2013	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	6.13	26.87	8457.01

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
5/15/2014	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	4.93	25.26	8458.62
8/6/2014	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	6.20	26.49	8457.39
11/6/2014	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	8.19	26.20	8457.68
2/19/2015	MW-4	<1.0	<1.0	<1.0	<1.0	<0.100	4.98	26.58	8457.30
8/13/2015	MW-4	-	-	-	-	-	-	26.15	8457.73
11/18/2015	MW-4	-	-	-	-	-	-	-	-
7/19/2012	MW-5	**58.5**	87.6	78.8	337	2.63	1.54	21.24	8460.70
8/15/2012	MW-5	**102**	163	69.0	394	4.68	1.15	21.17	8460.77
9/19/2012	MW-5	**48.5**	94.5	32.8	181	1.62	1.64	21.29	8460.77
10/18/2012	MW-5	**80.3**	109	73.5	426	3.8	1.75	21.36	8460.70
12/12/2012	MW-5	**61.1**	54.8	3.2	229	3.86	1.87	21.62	8460.44
4/25/2013	MW-5	**14.3**	23.6	12.4	74.4	0.849	2.04	20.95	8461.11
6/13/2013	MW-5	**31.1**	13.8	8.5	73.7	0.963	2.04	21.45	8460.61
8/8/2013	MW-5	**20.8**	19.9	4.4	50.9	1.35	4.18	20.82	8461.24
11/13/2013	MW-5	**85**	<4.0	<4.0	36.5	2.76	1.48	21.25	8460.81
2/13/2014	MW-5	**25.6**	<1.0	<1.0	3.2	0.618	2.85	21.02	8461.04
5/15/2014	MW-5	**10.9**	<1.0	<1.0	<1.0	0.136	4.30	20.40	8461.66
8/6/2014	MW-5	**22.9**	<1.0	<1.0	18.5	0.397	2.63	20.90	8461.16
11/6/2014	MW-5	**6.0**	<1.0	<1.0	1.9	<0.100	6.53	20.94	8461.12
2/19/2015	MW-5	**2.9**	<1.0	<1.0	<1.0	0.243	1.98	21.11	8460.95
8/13/2015	MW-5	**21.5**	<1.0	<1.0	21.7	<0.1	1.41	21.13	8460.93
11/18/2015	MW-5	-	-	-	-	-	-	21.15	8460.91
2/17/2016	MW-5	**16.2**	5.4	14.0	37.1	0.679	4.66	20.58	8461.48
8/3/2016	MW-5	**38.6**	17.2	<1.0	50.8	0.779	2.11	21.38	8460.68
8/16/2017	MW-5	2.8	<1.0	<1.0	5.7	<0.1	2.65	21.35	8460.71
11/16/2017	MW-5	**29.5**	<1.0	16.4	35.8	0.965	1.87	21.25	8460.81
5/16/2018	MW-5	1.3	<1.0	<1.0	<1.0	<0.100	3.52	21.03	8461.03
7/19/2012	MW-6	**23.4**	527	211	1,280	6.01	0.9	6.79	8456.77
8/15/2012	MW-6	**20.8**	391	301	1,160	8.18	0.79	7.02	8456.54
9/19/2012	MW-6	**19.1**	345	272	920	6.5	1.24	7.03	8456.53
10/18/2012	MW-6	**37.1**	394	399	1,130	10.6	1.45	7.11	8456.45
12/12/2012	MW-6	**19.0**	160	256	975	3.07	1.55	6.12	8457.44
3/19/2013	MW-6	**3.0**	19.0	9.3	347	1.88	1.42	4.58	8458.98
5/14/2013	MW-6	**74.3**	**757**	376	**2,640**	16.5	1.42	5.10	8458.46
6/13/2013	MW-6	**35.8**	453	291	**2,200**	15.2	1.1	5.76	8457.80
7/10/2013	MW-6	**4.9**	28.0	125	628	8.92	2.37	6.81	8456.75
8/8/2013	MW-6	**16.9**	206	210	815	6.59	1.45	6.40	8457.16
11/13/2013	MW-6	<1.0	<1.0	<1.0	<1.0	0.203	3.64	6.83	8456.73
2/13/2014	MW-6	**2.4**	3.6	54	209	3.18	3.15	5.58	8457.98
5/15/2014	MW-6	<1.0	<1.0	<1.0	<1.0	0.196	3.01	5.25	8458.31
8/6/2014	MW-6	<1.0	<1.0	8.1	16.1	1.78	1.79	6.65	8456.91
11/6/2014	MW-6	<1.0	<1.0	<1.0	<1.0	0.307	3.20	6.67	8456.89
12/3/2014	MW-6	-	-	-	-	-	3.28	5.95	8457.61
12/19/2014	MW-6	-	-	-	-	-	2.99	6.60	8456.96
1/27/2015	MW-6	-	-	-	-	-	2.55	6.18	8457.38
2/19/2015	MW-6	**12.6**	9.1	35.4	84.5	3.03	2.17	6.35	8457.21
4/9/2015	MW-6	**2.8**	7.5	16.0	144	2.26	5.82	5.71	8457.85
5/21/2015	MW-6	<1.0	<1.0	<1.0	4.5	0.322	5.10	5.50	8458.06
8/13/2015	MW-6	<1.0	<1.0	<1.0	<1.0	<0.100	1.42	6.58	8456.98

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
11/18/2015	MW-6	<1.0	<1.0	<1.0	<1.0	<0.100	2.06	6.15	8457.41
2/17/2016	MW-6	1.5	1.0	4.5	9.4	0.149	3.60	5.15	8458.41
5/4/2016	MW-6	1.0	<1.0	9.3	63.2	1.27	3.11	5.40	8458.16
5/25/2016	MW-6	1.62	<1.00	16.5	41.8	1.76	2.67	4.02	8459.54
6/9/2016	MW-6	<1.00	<1.00	20.3	25.2	1.31	2.47	3.88	8459.68
6/23/2016	MW-6	<1.00	<1.00	10.3	15.0	1.24	2.31	5.42	8458.14
7/6/2016	MW-6	**2.28**	3.73	39.2	43.6	1.45	2.24	6.15	8457.41
7/19/2016	MW-6	1.02	1.19	30.4	25.5	1.69	2.64	6.73	8456.83
8/3/2016	MW-6	<1.00	<1.00	5.96	5.23	1.06	2.67	6.85	8456.71
8/22/2016	MW-6	<1.0	<1.0	2.3	<1.0	0.862	2.79	6.93	8456.63
9/7/2016	MW-6	<1.0	<1.0	4.9	1.9	0.281	2.80	6.90	8456.66
9/21/2016	MW-6	<1.0	<1.0	7.2	<1.0	0.673	3.25	7.00	8456.56
10/5/2016	MW-6	<1.0	<1.0	4.0	<1.0	0.554	2.66	6.74	8456.82
11/16/2016	MW-6	<1.0	<1.0	17.2	5.0	1.15	4.07	7.13	8456.43
4/26/2017	MW-6	**2.9**	5.8	76.7	145.0	2.82	2.42	4.62	8458.94
7/19/2012	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	1.15	6.65	8456.00
8/15/2012	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	0.35	6.89	8455.76
9/19/2012	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	2.04	6.90	8455.75
10/18/2012	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	1.42	6.96	8455.69
12/12/2012	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	3.17	5.96	8456.69
4/25/2013	MW-7	<2.0	<2.0	<2.0	<2.0	<0.200	3.73	5.73	8456.92
5/14/2013	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	2.2	5.01	8457.64
6/13/2013	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	1.95	5.64	8457.01
7/10/2013	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	2.42	6.08	8456.57
8/8/2013	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	1.01	6.18	8456.47
11/13/2013	MW-7	1.2	1.1	9.3	21.4	0.741	1.58	6.76	8455.89
2/13/2014	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	4.36	5.44	8457.21
5/15/2014	MW-7	<1.0	<1.0	<1.0	<1.0	0.156	3.24	5.27	8457.38
8/6/2014	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	1.65	6.54	8456.11
11/6/2014	MW-7	**2.2**	<1.0	11.1	22.1	0.390	2.72	6.58	8456.07
12/3/2014	MW-7	-	-	-	-	-	2.54	5.82	8456.83
12/19/2014	MW-7	-	-	-	-	-	2.71	6.53	8456.12
1/27/2015	MW-7	-	-	-	-	-	2.93	5.98	8456.67
2/19/2015	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	4.06	6.17	8456.48
4/9/2015	MW-7	**7.5**	44.7	111	371	5.17	3.16	5.66	8456.99
5/21/2015	MW-7	**3.5**	3.9	28.1	77.8	1.47	4.20	4.60	8458.05
8/13/2015	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	0.88	6.45	8456.20
11/18/2015	MW-7	1.5	<1.0	12.6	11.9	0.662	2.42	6.02	8456.63
2/17/2016	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	4.52	5.05	8457.60
5/4/2016	MW-7	2.1	1.5	32.7	61.9	1.71	3.61	5.33	8457.32
5/25/2016	MW-7	<1.00	<1.00	<1.00	<1.00	<0.100	4.67	3.95	8458.70
6/9/2016	MW-7	<1.00	<1.00	<1.00	<1.00	<0.100	4.64	3.79	8458.86
6/23/2016	MW-7	<1.00	<1.00	<1.00	<1.00	<0.100	3.72	5.25	8457.40
7/6/2016	MW-7	<1.00	<1.00	<1.00	<1.00	<0.100	3.11	6.02	8456.63
7/19/2016	MW-7	<1.00	<1.00	<1.00	<1.00	<0.100	2.96	6.55	8456.10
8/3/2016	MW-7	<1.00	<1.00	<1.00	<1.00	<0.100	2.33	6.65	8456.00
8/22/2016	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	2.53	6.73	8455.92
9/7/2016	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	2.87	6.72	8455.93
9/21/2016	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	3.07	6.83	8455.82

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
10/5/2016	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	2.72	6.58	8457.07
11/16/2016	MW-7	<1.0	<1.0	<1.0	<1.0	<0.100	3.11	6.95	8455.70
4/26/2017	MW-7	<1.0	<1.0	<1.0	<1.0	0.191	2.83	4.55	8458.10
7/19/2012	MW-8	**71.6**	91	107	319	1.36	0.82	5.02	8455.93
8/15/2012	MW-8	**63.0**	21	172	322	2.62	0.58	5.25	8455.70
9/19/2012	MW-8	**49.3**	16	167	219	3.87	2.42	5.21	8455.74
10/18/2012	MW-8	**37.3**	9	91	136	1.31	1.64	5.28	8455.67
12/12/2012	MW-8	**17.6**	2	48	61	0.593	1.79	4.40	8456.55
4/25/2013	MW-8	**3.9**	<1.0	6.9	5.8	0.497	1.14	4.15	8456.80
5/14/2013	MW-8	**7.8**	<1.0	6.8	9.7	0.334	2.50	3.50	8457.45
6/13/2013	MW-8	**7.1**	<1.0	6.5	11.1	0.253	2.01	4.17	8456.78
7/10/2013	MW-8	**2.4**	<1.0	6.8	5.2	0.194	2.55	5.10	8455.85
8/8/2013	MW-8	**2.7**	<1.0	5.0	3.6	0.174	1.77	4.64	8456.31
11/13/2013	MW-8	<1.0	<1.0	<1.0	<1.0	<0.100	1.34	5.03	8455.92
5/15/2014	MW-8	1.1	<1.0	1.5	2.1	<0.100	3.64	3.78	8457.17
8/6/2014	MW-8	1.6	<1.0	2.0	<1.0	<0.100	2.20	4.94	8456.01
11/6/2014	MW-8	<1.0	<1.0	<1.0	<1.0	<0.100	3.19	4.91	8456.04
12/3/2014	MW-8	-	-	-	-	-	2.64	4.20	8456.75
12/19/2014	MW-8	-	-	-	-	-	2.62	4.90	8456.05
1/27/2015	MW-8	-	-	-	-	-	2.21	4.45	8456.50
2/19/2015	MW-8	<1.0	<1.0	<1.0	<1.0	<0.100	2.65	4.64	8456.31
4/9/2015	MW-8	<1.0	<1.0	<1.0	1.0	<0.100	3.31	3.90	8457.05
8/13/2015	MW-8	-	-	-	-	-	-	4.86	8456.09
11/18/2015	MW-8	-	-	-	-	-	-	4.35	8456.60
2/17/2016	MW-8	-	-	-	-	-	-	3.50	8457.45
11/18/2010	RH-1	**24**	377	18	1,060	8.94	-	-	-
7/1/2011	RH-1	**31**	546	23	**1,720**	13.8	-	-	-
7/14/2011	RH-1	**20**	197	<1.0	873	6.43	-	-	-
7/28/2011	RH-1	**14**	215	<1.0	899	8.2	-	-	-
8/11/2011	RH-1	**14**	338	15	1,120	7.74	-	-	-
8/24/2011	RH-1	**14**	255	10	937	7.69	-	-	-
9/8/2011	RH-1	**5**	40	<1.0	173	4.85	-	-	-
9/22/2011	RH-1	**7**	83	<1.0	284	3.57	-	-	-
10/6/2011	RH-1	**13**	102	6	284	2.78	-	-	-
10/20/2011	RH-1	**4**	38	<1.0	358	4.49	-	-	-
11/3/2011	RH-1	**4**	29	3	236	3.44	-	-	-
11/18/2011	RH-1	**7**	69	12	607	7.78	-	-	-
12/15/2011	RH-1	**12**	127	1	575	5.46	-	-	-
1/13/2012	RH-1	**6**	102	6	667	9.59	-	-	-
2/9/2012	RH-1	**3**	25	<1	327	4.67	0.95	2.66	8459.01
3/13/2012	RH-1	<1	7	<1	19	<0.5	2.29	-	-
4/4/2012	RH-1	**18**	181	101	489	4.65	6.4	1.35	8460.32
5/13/2013	RH-1	Abandoned							
7/1/2011	RH-2	**422**	**12,400**	**1,590**	**21,200**	115	-	-	-
7/14/2011	RH-2	**166**	**3,370**	399	**8,120**	36.7	-	-	-
4/4/2012	RH-2	**159**	**2,310**	288	**4,420**	31.40	1.66	0.33	-
4/18/2012	RH-2	**71**	**2,560**	46	**4,670**	26.60	1.09	1.50	-
5/3/2012	RH-2	**50**	**1,630**	232	**4,370**	26.50	1.44	1.20	-
5/16/2012	RH-2	**28**	536	<1.0	**2,420**	11.60	0.42	1.00	-

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
6/15/2012	RH-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-
5/13/2013	RH-2	Abandoned							
10/5/2010	RH-3	**1,480**	**21,000**	**1,690**	**15,900**	96	-	-	-
10/19/2010	RH-3	**1,120**	**15,900**	**1,360**	**12,100**	82	-	-	-
11/18/2010	RH-3	**1,030**	**11,700**	**882**	**10,300**	104	-	-	-
12/15/2010	RH-3	**876**	**13,100**	**1,690**	**11,000**	66.3	1.7	-	-
1/7/2011	RH-3	**771**	**10,200**	**982**	**10,600**	69.9	2.2	-	-
1/21/2011	RH-3	**1,040**	**13,800**	**999**	**14,600**	91	-	-	-
2/4/2011	RH-3	**970**	**9,140**	**617**	**8,840**	60	-	-	-
2/22/2011	RH-3	**777**	**15,500**	**1,660**	**15,200**	79	4.6	-	-
3/11/2011	RH-3	**720**	**11,000**	**1,380**	**11,300**	83	5.9	-	-
3/24/2011	RH-3	**865**	**13,500**	**1,930**	**13,100**	103	5.4	-	-
4/7/2011	RH-3	**1,060**	**16,300**	**1,920**	**17,100**	135	6.4	-	-
4/22/2011	RH-3	**979**	**16,300**	**1,390**	**24,300**	194	6.5	-	-
5/3/2011	RH-3	**786**	**14,100**	**1,940**	**17,700**	105	4.9	-	-
5/19/2011	RH-3	**487**	**8,370**	**1,170**	**17,400**	99.7	1.6	-	-
6/3/2011	RH-3	**371**	**6,350**	**619**	**14,600**	97	1.6	-	-
6/16/2011	RH-3	**219**	**4,300**	51	**12,000**	79.7	1.4	-	-
7/1/2011	RH-3	**396**	**9,420**	**1,011**	**23,900**	123	1.7	-	-
7/14/2011	RH-3	**252**	**5,760**	**677**	**10,500**	54.6	0.6	-	-
7/28/2011	RH-3	**177**	**4,860**	161	**9,470**	55.9	1.4	-	-
8/11/2011	RH-3	**146**	**4,090**	194	**7,890**	47.6	1.7	-	-
8/24/2011	RH-3	**179**	**4,720**	354	**8,440**	50.8	-	-	-
9/8/2011	RH-3	**128**	**3,730**	234	**6,140**	71.8	0.2	-	-
9/22/2011	RH-3	**118**	**3,350**	50	**6,110**	46.3	0.9	-	-
10/6/2011	RH-3	**102**	**3,580**	181	**7,480**	46.8	1	-	-
10/20/2011	RH-3	**113**	**4,650**	498	**8,400**	80.8	1.1	-	-
11/3/2011	RH-3	**135**	**4,810**	442	**8,050**	61.5	1	-	-
11/18/2011	RH-3	**136**	**4,510**	342	**9,290**	66.1	1	-	-
12/15/2011	RH-3	**83**	**2,560**	151	**6,120**	56.5	0.83	-	-
1/13/2012	RH-3	**71**	**3,730**	49	**6,110**	42.7	1.43	-	-
2/9/2012	RH-3	**71**	**2,180**	15	**4,390**	34.9	0.69	5.58	8458.77
3/13/2012	RH-3	**39**	**1,590**	218	**5,930**	34.4	1.5	4.21	8460.14
4/4/2012	RH-3	**156**	**3,320**	218	**8,820**	59.4	0.56	3.00	8461.35
4/18/2012	RH-3	**138**	**3,470**	209	**8,080**	48.9	0.52	1.55	8462.80
5/3/2012	RH-3	**66**	**2,360**	351	**6,030**	39.1	0.47	3.85	8460.50
5/16/2012	RH-3	**53**	**1,570**	30	**4,690**	28	0.3	3.70	8460.65
6/15/2012	RH-3	**54**	**1,910**	19	**5,280**	39.6	0.4	4.40	8459.95
7/19/2012	RH-3	**29.5**	**1,900**	**576**	**3,730**	19.3	1.32	5.81	8458.54
8/15/2012	RH-3	**23.9**	**1,490**	**575**	**3,370**	11.3	0.42	6.05	8458.30
9/19/2012	RH-3	**17.5**	**1,140**	438	**2,610**	14.4	1.13	6.06	8458.29
10/18/2012	RH-3	**11.4**	639	**32**	**1,810**	11.6	1.03	6.13	8458.22
12/12/2012	RH-3	**13.7**	**967**	303	**2,730**	6.56	1.69	5.18	8459.17
4/25/2013	RH-3	**37**	**1,120**	620	**2,760**	25.7	3.87	5.80	8458.55
5/13/2013	RH-3	Abandoned							
11/18/2010	RH-4	**134**	**1,070**	17	**4,200**	26.9	-	-	-
3/13/2012	RH-4	<1.0	1	<1.0	35	1.54	-	-	-
5/13/2013	RH-4	Abandoned							
7/19/2012	RW-1	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
8/15/2012	RW-1	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/19/2012	RW-1	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/18/2012	RW-1	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/12/2012	RW-1	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/25/2013	RW-1	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6/13/2013	RW-1	DRY	DRY	DRY	DRY	DRY	DRY	4.10	8458.85
8/8/2013	RW-1	DRY	DRY	DRY	DRY	DRY	DRY	4.72	8458.23
11/13/2013	RW-1	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5/15/2014	RW-1	-	-	-	-	-	-	3.30	8459.65
3/14/2012	RW-2	<1	223	20	874	7.53	-	-	-
3/14/2012	RW-2	<1	223	20	874	7.53	-	-	-
7/19/2012	RW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/15/2012	RW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/19/2012	RW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/18/2012	RW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/12/2012	RW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/25/2013	RW-2	DRY	DRY	DRY	DRY	DRY	DRY	1.87	8458.63
11/13/2013	RW-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5/15/2014	RW-2	-	-	-	-	-	-	1.35	8459.15
7/19/2012	RW-3	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/15/2012	RW-3	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/19/2012	RW-3	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/18/2012	RW-3	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/12/2012	RW-3	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/25/2013	RW-3	-	-	-	-	-	-	3.26	8458.18
6/13/2013	RW-3	-	-	-	-	-	-	3.45	8457.99
8/8/2013	RW-3	-	-	-	-	-	-	4.05	8457.39
11/13/2013	RW-3	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5/15/2014	RW-3	-	-	-	-	-	-	2.75	8458.69
12/16/2009	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
12/28/2009	T-2	**37**	113	1	83	0.68	-	-	-
1/3/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
1/11/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
1/18/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
1/25/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
2/17/2010	T-2	2	17	6	29	< 0.5	-	-	-
3/2/2010	T-2	<1.0	10	3	13	< 0.5	-	-	-
3/16/2010	T-2	<1.0	<1.0	<1.0	2	< 0.5	-	-	-
3/23/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
3/29/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
4/6/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
4/14/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
4/20/2010	T-2	**20**	42	5	73	< 0.5	-	-	-
4/27/2010	T-2	**31**	48	1	145	0.56	-	-	-
5/4/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
5/5/2010	T-2	-	-	-	-	-	2.1	-	-
5/11/2010	T-2	<1.0	<1.0	<1.0	2	< 0.5	0.6	-	-
5/18/2010	T-2	**6**	11	1	11	< 0.5	2.3	-	-
5/25/2010	T-2	**19**	86	5	39	< 0.5	3.9	-	-

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
6/1/2010	T-2	**55**	317	24	196	1.58	2.7	-	-
6/9/2010	T-2	**41**	238	21	149	1.29	1.9	-	-
6/15/2010	T-2	**10**	31	3	36	< 0.5	1.9	-	-
6/22/2010	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	3.8	-	-
6/30/2010	T-2	2	6	1	7	< 0.5	0.3	-	-
7/6/2010	T-2	2	13	1	9	< 0.5	3.3	-	-
7/13/2010	T-2	2	20	<1.0	8	< 0.5	2	-	-
7/27/2010	T-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/12/2010	T-2	2	50	1	6	< 0.5	1.3	-	-
8/25/2010	T-2	1	26	<1.0	3	< 0.5	DRY	DRY	DRY
9/9/2010	T-2	**3**	11	<1.0	4	< 0.5	1.4	-	-
9/23/2010	T-2	**4**	7	<1.0	2	< 0.5	2.6	-	-
10/5/2010	T-2	**19**	19	<1.0	4	< 0.5	1	-	-
10/19/2010	T-2	**26**	32	<1.0	4	< 0.5	0.6	-	-
11/4/2010	T-2	**11**	9	<1.0	3	< 0.5	1	-	-
11/18/2010	T-2	**19**	<1.0	<1.0	2	< 0.5	1.2	-	-
12/1/2010	T-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/15/2010	T-2	**32**	24	3	10	< 0.5	3	-	-
1/7/2011	T-2	**21**	5	<1.0	220	1.28	1.9	-	-
1/21/2011	T-2	**49**	41	5	85	0.56	3.1	-	-
2/22/2011	T-2	**48**	20	11	32	< 0.5	3.3	-	-
3/11/2011	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	4.5	-	-
3/24/2011	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	4.8	-	-
4/7/2011	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	4.8	-	-
4/22/2011	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	1.7	-	-
5/3/2011	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	2.6	-	-
5/19/2011	T-2	<1.0	<1.0	<1.0	2	< 0.5	2.6	-	-
6/3/2011	T-2	**66**	128	36	173	1.36	0.8	-	-
6/16/2011	T-2	**102**	141	15	413	3.34	0.6	-	-
7/1/2011	T-2	**85**	9	5	14	< 0.5	1.1	-	-
7/14/2011	T-2	**84**	5	3	8	< 0.5	0.5	-	-
7/28/2011	T-2	**95**	10	4	12	< 0.5	0.7	-	-
8/11/2011	T-2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/24/2011	T-2	**109**	9	3	8	< 0.5	1.1	-	-
9/8/2011	T-2	**81**	10	4	13	< 0.5	1	-	-
9/22/2011	T-2	**92**	5	2	7	< 0.5	1.4	-	-
10/6/2011	T-2	**56**	3	1	5	< 0.5	0.9	-	-
10/20/2011	T-2	**24**	3	1	4	< 0.5	1.6	-	-
11/3/2011	T-2	**6**	<1.0	<1.0	2	< 0.5	1	-	-
11/18/2011	T-2	**27**	<1.0	<1.0	3	< 0.5	1.152	-	-
12/15/2011	T-2	**88**	5	1	6	< 0.5	1.66	-	-
1/13/2012	T-2	**81**	5	<1.0	<1.0	< 0.5	2.39	-	-
2/9/2012	T-2	**82**	4	2	6	< 0.5	3.02	4.34	8,455.79
3/14/2012	T-2	<1.0	<1.0	<1.0	<1.0	< 0.5	3.18	2.65	8,457.48
4/4/2012	T-2	**55**	9	12	159	< 0.5	1.81	2.91	8,457.22
4/18/2012	T-2	**26**	<1.0	1	12	< 0.5	1.99	3.20	8,456.93
5/3/2012	T-2	**67**	7	7	31	< 0.5	0.92	2.95	8,457.18
5/16/2012	T-2	**116**	11	6	19	< 0.5	0.11	2.85	8,457.28
6/15/2012	T-2	**129**	13	6	20	< 0.5	0.68	4.35	8,455.78

TABLE 1
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Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
7/19/2012	T-2	Insufficient GW for sampling					0.33	4.42	8455.71
8/15/2012	T-2	**104**	15	7	25	< 0.3	0.22	5.23	8,454.90
9/19/2012	T-2	**125**	18	11	39	0.395	1.88	5.11	8,455.02
10/18/2012	T-2	**65**	9	7	23	0.18	1.77	5.05	8455.08
12/12/2012	T-2	**63**	10	8	28	0.10	1.84	4.25	8455.88
3/19/2013	T-2	**15**	2	3	9	<0.100	4.2	2.50	8457.63
4/25/2013	T-2	<1.0	<1.0	<1.0	<1.0	0.1	2.25	3.42	8456.71
5/14/2013	T-2	**9.5**	1.2	3.0	10.3	0.131	2.04	3.05	8457.08
6/13/2013	T-2	**16.1**	2.9	3.8	12.6	0.107	2.64	3.70	8456.43
7/10/2013	T-2	**65.8**	15.5	12.2	39.7	0.220	2.31	5.00	8455.13
8/8/2013	T-2	**53.7**	12.5	10.5	31.9	0.170	0.92	4.30	8455.83
11/13/2013	T-2	**16.3**	6	4.2	11.9	0.107	3.42	4.68	8455.45
5/15/2014	T-2	**6.4**	1.7	7.9	31.8	0.15	1.84	3.22	8456.91
8/6/2014	T-2	**31.4**	10.7	12.3	36.7	<0.100	1.92	4.60	8455.53
11/6/2014	T-2	**4.1**	1.3	2.5	8.4	<0.100	3.02	4.30	8455.83
2/19/2015	T-2	<1.0	<1.0	<1.0	<1.0	<0.100	8.42	2.55	8457.58
4/9/2015	T-2	<1.0	<1.0	<1.0	<1.0	<0.100	2.76	3.00	8457.13
5/21/2015	T-2	**3.2**	<1.0	2.8	8.7	<0.100	3.22	3.65	8456.48
8/13/2015	T-2	**19.1**	11.3	11.9	46.0	0.161	1.03	4.46	8455.67
11/18/2015	T-2	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen
2/17/2016	T-2	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen
5/4/2016	T-2	<1.0	<1.0	<1.0	<1.0	<0.100	2.17	2.40	8457.73
5/25/2016	T-2	1.21	<1.00	1.63	7.16	<0.100	2.36	2.27	8457.86
6/9/2016	T-2	1.49	<1.00	<1.00	6.86	<0.100	2.42	1.90	8458.23
6/23/2016	T-2	1.72	<1.00	<1.00	5.92	<0.100	1.87	3.48	8456.65
7/6/2016	T-2	**2.95**	2.47	1.15	12.3	<0.100	2.04	4.02	8456.11
7/19/2016	T-2	**10.9**	4.38	<1.00	41.5	0.147	1.83	4.86	8455.27
8/3/2016	T-2	**13.9**	4.11	<1.00	46.3	0.132	1.66	5.00	8455.13
8/22/2016	T-2	**12.4**	3.1	<1.0	48.0	0.119	1.73	4.90	8455.23
9/7/2016	T-2	**6.5**	1.2	<1.0	24.0	<0.100	2.03	4.91	8455.22
9/21/2016	T-2	**11.9**	2.5	<1.0	60.2	0.171	2.91	4.94	8455.19
10/5/2016	T-2	**7.6**	1.6	<1.0	31.2	<0.100	2.01	4.60	8455.53
10/18/2016	T-2	**6.3**	1.1	<1.0	28.8	0.149	1.91	4.80	8455.33
11/16/2016	T-2	**3.3**	<1.0	<1.0	18.6	<0.100	3.85	4.96	8455.17
4/26/2017	T-2	<1.0	<1.0	<1.0	1.2	<0.100	2.89	2.53	8457.60
8/16/2017	T-2	**12.4**	2.1	<1.0	55.7	0.153	1.97	4.80	8455.33
11/16/2017	T-2	1.14	<1.0	<1.0	6.92	<0.100	1.84	4.78	8455.35
5/16/2018	T-2	<1.0	<1.0	<1.0	<1.0	<0.100	1.11	3.00	8457.13
1/25/2010	T-3	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
4/20/2010	T-3	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
1/18/2010	T-5	**7,440**	**49,700**	**3,470**	**31,900**	264	-	-	-
2/3/2010	T-5	**8,200**	**43,800**	**3,060**	**25,400**	189	-	-	-
2/16/2010	T-5	**4,200**	**23,700**	**1,810**	**110,000**	189	-	-	-
2/24/2010	T-5	**2,890**	**16,900**	**1,190**	**11,000**	138	-	-	-
3/2/2010	T-5	**1,780**	**9,820**	**646**	**5,880**	46.1	-	-	-
3/16/2010	T-5	**2,690**	**18,900**	**782**	**14,300**	101	-	-	-
3/23/2010	T-5	**3,690**	**25,800**	**1,260**	**24,200**	148	-	-	-
3/29/2010	T-5	**1,420**	**11,200**	**695**	**11,600**	69.7	-	-	-
4/6/2010	T-5	**1,230**	**12,500**	**944**	**13,100**	88.4	-	-	-

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US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
4/14/2010	T-5	**2,470**	**20,600**	**1,560**	**17,100**	118	-	-	-
4/20/2010	T-5	**541**	**2,440**	40	1,250	88.4	-	-	-
4/28/2010	T-5	**1,190**	**17,600**	**1,560**	**21,800**	114	-	-	-
5/4/2010	T-5	**860**	**10,900**	250	**12,800**	70	-	-	-
5/5/2010	T-5	**-**	**-**	-	**-**	-	2.1	-	-
5/11/2010	T-5	**737**	**13,300**	**1,050**	**15,500**	85	3.8	-	-
5/18/2010	T-5	**512**	**8,690**	**700**	**11,900**	63.9	2	-	-
5/25/2010	T-5	**309**	**7,370**	**962**	**13,400**	74.7	2.2	-	-
6/1/2010	T-5	**158**	**2,840**	449	**8,930**	45.5	3.4	-	-
6/9/2010	T-5	**151**	**2,970**	**563**	**8,580**	45.8	2.5	-	-
6/15/2010	T-5	**335**	**5,780**	432	**11,400**	80.4	2	-	-
6/22/2010	T-5	**222**	**3,700**	<1.0	**7,140**	42.8	2.3	-	-
6/30/2010	T-5	**252**	**4,080**	285	**9,010**	51.9	-	-	-
7/6/2010	T-5	**342**	**5,190**	<1.0	**7,890**	44.1	2.3	-	-
7/13/2010	T-5	**304**	**3,590**	<1.0	**5,590**	33.2	1.9	-	-
7/27/2010	T-5	**296**	**4,210**	68	**6,370**	45.4	1.9	-	-
8/12/2010	T-5	**184**	**2,500**	214	**5,870**	59.8	2	-	-
8/25/2010	T-5	**161**	**2,940**	141	**4,310**	36	2.2	-	-
9/9/2010	T-5	**133**	**1,800**	308	**3,240**	31.1	2.2	-	-
9/23/2010	T-5	**75**	**1,240**	38	**1,900**	16.5	2.2	-	-
10/5/2010	T-5	**151**	**2,330**	14	**3,760**	19.7	2.1	-	-
10/19/2010	T-5	**112**	**1,970**	14	**3,010**	18.6	1.4	-	-
11/4/2010	T-5	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/18/2010	T-5	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/1/2010	T-5	**70**	**1,030**	<1.0	**1,960**	16.8	2.3	-	-
12/15/2010	T-5	**66**	**1,240**	50	**2,140**	17	1.3	-	-
1/7/2011	T-5	**61**	**1,040**	<1.0	**2,010**	15.8	1.4	-	-
1/21/2011	T-5	**45**	554	3	1,270	9.13	6.1	-	-
2/22/2011	T-5	**38**	499	<1.0	1,120	9	1.1	-	-
3/11/2011	T-5	**66**	**1,190**	12	**2,360**	15	0.9	-	-
3/24/2011	T-5	**26**	408	19	1,240	11	0.9	-	-
4/7/2011	T-5	**13**	107	<1.0	540	7	1.2	-	-
4/22/2011	T-5	**13**	138	5	659	9	22.6	-	-
5/3/2011	T-5	**14**	137	<1.0	818	8.66	3	-	-
5/19/2011	T-5	**18**	143	10	621	7.08	3	-	-
6/3/2011	T-5	<1	8	<1	53	1.11	1.5	-	-
6/16/2011	T-5	**5**	36	<1	293	5.12	0.6	-	-
7/1/2011	T-5	**7**	79	<1	372	4.38	1.1	-	-
7/14/2011	T-5	**9**	142	<1	683	5.88	2.5	-	-
7/28/2011	T-5	**22**	401	<1	861	7.65	0.9	-	-
8/11/2011	T-5	**14**	265	<1	996	6.76	2.3	-	-
8/24/2011	T-5	**27**	588	10	1,310	10.80	2.4	-	-
9/8/2011	T-5	<1	2	<1	30	0.93	0.1	-	-
9/22/2011	T-5	**12**	159	<1	645	7.27	1.6	-	-
10/6/2011	T-5	**19**	144	12	324	3.00	4.4	-	-
10/20/2011	T-5	2	12	<1	89	1.85	1.8	-	-
11/3/2011	T-5	**4**	27	<1	271	3.55	1.3	-	-
11/18/2011	T-5	**4**	27	<1	271	3.55	1.5	-	-
12/15/2011	T-5	**6**	85	<1	408	4.45	1.64	-	-

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
1/13/2012	T-5	**7**	200	4	854	10.80	1.29	4.10	8459.58
2/9/2012	T-5	**4**	75	<1	506	5.80	1.57	4.25	8459.43
3/13/2012	T-5	<1.0	<1.0	<1.0	<1.0	<0.5	3.98	2.84	8460.84
3/13/2012	T-5	-	-	-	-	-	1.26	2.85	8460.83
4/4/2012	T-5	**9**	68	74	291	3.32	-	-	-
4/18/2012	T-5	2	5	<1.0	24	0.82	1.84	3.05	8460.63
5/2/2012	T-5	2	7	<1.0	43	1.62	1.56	2.45	8461.23
5/16/2012	T-5	<1	<1	<1.0	5	<0.5	1.24	2.50	8461.18
6/15/2012	T-5	2	20	<1.0	55	2.45	1.24	3.65	8459.72
7/19/2012	T-5	2	24	65	178	2.22	1.64	4.11	8459.57
8/15/2012	T-5	2	67	101	360	4.92	0.82	4.30	8459.38
9/19/2012	T-5	-	-	-	-	-	-	4.37	8459.31
10/18/2012	T-5	-	-	-	-	-	-	4.47	8459.21
12/12/2012	T-5	<1.0	11	28	125	0.935	-	3.91	8459.77
4/25/2013	T-5	<1.0	<1.0	<1.0	<1.0	<0.100	5.55	3.22	8460.46
6/13/2013	T-5	<1.0	1.5	6.4	28.8	1.03	3.11	3.30	8460.38
8/8/2013	T-5	<1.0	5.7	10.8	34.5	1.47	2.01	3.58	8460.10
11/13/2013	T-5	1	40.4	73.9	297.0	5.77	4.08	4.30	8459.38
2/13/2014	T-5	<1.0	<1.0	<1.0	<1.0	<0.100	6.41	3.80	8459.88
5/15/2014	T-5	<1.0	<1.0	1.5	4.4	0.317	3.40	2.75	8460.93
8/6/2014	T-5	<1.0	3.4	42.7	89.4	3.23	2.69	4.14	8459.54
11/6/2014	T-5	<1.0	<1.0	1.6	3.4	0.122	5.11	4.03	8459.65
2/19/2015	T-5	<1.0	<1.0	1.2	3.1	0.248	9.07	3.85	8459.83
5/21/2015	T-5	-	-	-	-	-	6.33	2.15	8461.53
8/13/2015	T-5	-	-	-	-	-	-	4.10	8459.58
8/3/2016	T-5	Insufficient GW for sampling					4.00	4.35	8459.33
11/24/2009	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
12/4/2009	T-6	1	4	<1.0	2	< 0.5	-	-	-
12/16/2009	T-6	1	3	1	8.0	< 0.5	-	-	-
12/28/2009	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
1/3/2010	T-6	<1.0	<1.0	<1.0	5	< 0.5	-	-	-
1/11/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
1/18/2010	T-6	<1.0	<1.0	<1.0	2	< 0.5	-	-	-
1/25/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
2/3/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
2/24/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
3/2/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
3/16/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
3/23/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
3/29/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
4/6/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
4/14/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
4/20/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
4/27/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
5/4/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
5/5/2010	T-6	-	-	-	-	-	1.2	-	-
5/11/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	2.2	-	-
5/18/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	2.5	-	-
5/25/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	8.6	-	-

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
6/1/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	8.7	-	-
6/9/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	7.2	-	-
6/15/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	2.2	-	-
6/22/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	1.9	-	-
6/30/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
7/6/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	0.7	-	-
7/13/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	2.1	-	-
7/27/2010	T-6	<1.0	<1.0	18	<1.0	< 0.5	0.8	-	-
8/12/2010	T-6	<1.0	5	<1.0	<1.0	< 0.5	1	-	-
8/25/2010	T-6	<1.0	30	<1.0	<1.0	< 0.5	2.2	-	-
9/9/2010	T-6	<1.0	30	<1.0	<1.0	< 0.5	2	-	-
9/23/2010	T-6	<1.0	18	<1.0	<1.0	< 0.5	2	-	-
10/5/2010	T-6	<1.0	90	<1.0	<1.0	< 0.5	1	-	-
10/19/2010	T-6	<1.0	81	<1.0	<1.0	< 0.5	0.5	-	-
11/4/2010	T-6	<1.0	105	<1.0	<1.0	< 0.5	0.7	-	-
11/18/2010	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	0.6	-	-
12/1/2010	T-6	<1.0	53	<1.0	<1.0	< 0.5	2.3	-	-
12/15/2010	T-6	<1.0	115	<1.0	<1.0	< 0.5	1.6	-	-
1/7/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	5.2	-	-
1/21/2011	T-6	<1.0	23	<1.0	<1.0	< 0.5	1.7	-	-
2/4/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	6.2	-	-
2/22/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	2.4	-	-
3/11/2011	T-6	<1.0	3	<1.0	<1.0	< 0.5	5.2	-	-
3/24/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	5.4	-	-
4/7/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	5.4	-	-
4/22/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	4.7	-	-
5/3/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	1.8	-	-
5/19/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	3	-	-
6/3/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	4.2	-	-
6/16/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	0.4	-	-
7/1/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	0.7	-	-
7/14/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	1.1	-	-
7/28/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	0.7	-	-
8/11/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	2.3	-	-
8/24/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	2.3	-	-
9/8/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	0.2	-	-
9/22/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	1.6	-	-
10/6/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	0.2	-	-
10/20/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	1.6	-	-
11/3/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	1	-	-
11/18/2011	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	1.083	-	-
4/5/2012	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	-	-	-
4/18/2012	T-6	<1.0	<1.0	<1.0	<1.0	< 0.5	1.69	3.90	8460.01
7/19/2012	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	3.44	4.56	8457.19
8/15/2012	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	0.42	4.79	8456.96
9/19/2012	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	0.75	4.87	8456.88
10/18/2012	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	2.02	4.97	8456.78
12/12/2012	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	5.78	3.92	8457.83
4/25/2013	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	8.01	3.65	8458.10

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
6/13/2013	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	2.95	3.64	8458.11
8/8/2013	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	2.64	4.40	8457.35
11/13/2013	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	3.68	4.92	8456.83
5/15/2014	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	4.92	3.35	8458.40
8/6/2014	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	3.58	4.67	8457.08
11/6/2014	T-7	<1.0	<1.0	<1.0	<1.0	<0.100	6.72	4.73	8457.02
8/13/2015	T-7	-	-	-	-	-	-	4.45	8457.30
11/18/2015	T-7	-	-	-	-	-	-	-	-
5/18/2010	T-8	**177**	**2,800**	140	**5,030**	26.6	1.5	-	-
5/25/2010	T-8	**157**	**2,920**	126	**4,990**	27.9	3.6	-	-
6/1/2010	T-8	**59**	**1,360**	50	**2,900**	14.9	1.8	-	-
6/9/2010	T-8	**62**	**1,770**	144	**4,510**	23.3	2.4	-	-
6/15/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6/22/2010	T-8	<1.0	17	<1.0	470	7.99	DRY	DRY	DRY
6/30/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/6/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/13/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/27/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/12/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/12/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/25/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/9/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/23/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/5/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/19/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/4/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/18/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/1/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/15/2010	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1/7/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1/21/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2/4/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2/22/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3/11/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3/24/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/7/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/22/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5/3/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5/19/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6/3/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6/16/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/1/2011	T-8	<1	1	<1	76	1.25	2.9	-	-
7/14/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/28/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/11/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/24/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/8/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/22/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/6/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
10/20/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/3/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/18/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/15/2011	T-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/4/2012	T-8	<1.0	2	<1.0	2	<0.5	6.7	3.43	8,460.55
5/18/2010	T-9	**223**	**903**	8	379	3.28	1.7	-	-
5/25/2010	T-9	**86**	222	4	273	1.47	1.4	-	-
6/1/2010	T-9	**149**	232	13	474	2.2	1.6	-	-
6/9/2010	T-9	**156**	327	36	822	3.5	6.1	-	-
6/15/2010	T-9	**175**	97	47	841	5.03	-	-	-
6/22/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6/30/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/6/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/13/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/27/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/12/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/25/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/9/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/23/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/5/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/19/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/4/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/18/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/1/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/15/2010	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1/7/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1/21/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2/4/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2/22/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3/11/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3/24/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/7/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/22/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5/3/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5/19/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6/3/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6/16/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/1/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/14/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7/28/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/11/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/24/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/8/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/22/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/6/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10/20/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/3/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/18/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/15/2011	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

TABLE 1
GROUNDWATER SAMPLE RESULTS
WOLF CREEK SPILL SITE
US Highway 160 at MM 179.5, Colorado

Sample Date	Sample ID	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Water Table Elevation (ft)
8/8/2013	T-9	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4/9/2015	T-9	<1.0	<1.0	<1.0	<1.0	<0.100	8.72	3.75	-
CDPHE Groundwater Standards		**5** **2.2 Wetlands**	**700**	**560**	**1,400**	**-**	**-**	**-**	**-**

Notes:

1. Colorado groundwater standards as published in the Basic Standards for Groundwater, Regulation 41, by the Colorado Department of Public Health and Environment (CDPHE), Water Quality Control Commission.
2. **Bold** Indicates an exceedance of CDPHE groundwater standards.

TVPH total volatile petroleum hydrocarbons
µg/L micrograms per liter
mg/L milligrams per liter

ORIGINS LABORATORY, INC

October 16, 2020

Apex Companies, LLC

Scott Pieratt

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - JC Hunt Wolf Creek **Project Number - 4910-C**

Attached are your analytical results for JC Hunt Wolf Creek received by Origins Laboratory, Inc. October 09, 2020. This project is associated with Origins project number Y010141-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Scott Pieratt
Project Number: 4910-C
Project: JC Hunt Wolf Creek

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y010141-01	Water	October 8, 2020 13:10	10/09/2020 12:54

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Scott Pieratt
Project Number: 4910-C
Project: JC Hunt Wolf Creek

ORIGINS LABORATORY, INC

Y010141

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

Client: Apex Companies, LLC
Project: JC Hunt Wolf Creek
Project Manager: Scott Pieratt
Project Number: 4910-C

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW-01	Water	10/9/20	1310	JG	40mL Amber VOA Vial - HC	3	BTEX/TVPH by EPA 8260C

Temperature on Receipt: 5.3
Turn Around Time:
Same Day: ☐ 72-hr ☐
24-hr ☐ Standard ☒
48-hr ☐

Relinquished By: Date / Time 10/9 12:54
Received By: Date / Time
Relinquished By: Date / Time 10/9/20 1254
Received By: Date / Time

Origins Laboratory, Inc.

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Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Scott Pieratt
Project Number: 4910-C
Project: JC Hunt Wolf Creek

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y010141

Client: Apex
Client Project ID: JC Hunt Wolf Creek

Checklist Completed by: JG
Date/time completed: 10/9/20

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ____ Soil/Solid X Water ____ Other: ____ (Describe)

Cooler Number/Temperature: 1 / 5.3 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?	✓			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**		✓		
Are samples preserved that require preservation and was it checked [1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*		✓		

Additional Comments (if any):

[1] *If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.*

Reviewed by (Project Manager) JM — Date/Time Reviewed 10-12-20

Origins Laboratory, Inc.

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Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Scott Pieratt
Project Number: 4910-C
Project: JC Hunt Wolf Creek

MW-01
10/8/2020 1:10:00PM

Origins Laboratory, Inc.
Y010141-01 (Water)

BTEX/TVPH by EPA 8260D

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Benzene	ND	0.00100	mg/L	1	B0J1201	ZZZ	10/12/2020	10/14/2020	U
Toluene	ND	0.00100	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00100	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00100	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.100	"	"	"	ZZZ	"	"	U
Surrogate: 1,2-Dichloroethane-d4	*88.4 %*	*70-130*				"	"	"	
Surrogate: Toluene-d8	*100 %*	*70-130*				"	"	"	
Surrogate: 4-Bromofluorobenzene	*106 %*	*70-130*				"	"	"	

Origins Laboratory, Inc.

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Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Scott Pieratt
Project Number: 4910-C
Project: JC Hunt Wolf Creek

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0J1201 - EPA 5030B (Water)										
Blank (B0J1201-BLK1)					Prepared: 10/12/2020 Analyzed: 10/14/2020					
Benzene	ND	0.00100	mg/L							U
Toluene	ND	0.00100	"							U
Ethylbenzene	ND	0.00100	"							U
Xylenes, total	ND	0.00100	"							U
Gasoline Range Hydrocarbons	ND	0.100	"							U
Surrogate: 1,2-Dichloroethane-d4	*0.053*		*"*	*0.0625*		*85.0*	*70-130*			
Surrogate: Toluene-d8	*0.063*		*"*	*0.0625*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.065*		*"*	*0.0625*		*105*	*70-130*			

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

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4150 Darley Avenue, Suite 1
Boulder CO 80305

Scott Pieratt
Project Number: 4910-C
Project: JC Hunt Wolf Creek

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0J1201 - EPA 5030B (Water)										
LCS (B0J1201-BS1)					Prepared: 10/12/2020 Analyzed: 10/14/2020					
Benzene	0.0482	0.00100	mg/L	0.0500		96.5	70-130			
Toluene	0.0505	0.00100	"	0.0500		101	70-130			
Ethylbenzene	0.0487	0.00100	"	0.0500		97.3	70-130			
m,p-Xylene	0.0955	0.00200	"	0.100		95.5	70-130			
o-Xylene	0.0486	0.00100	"	0.0500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.056*		*"*	*0.0625*		*90.1*	*70-130*			
Surrogate: Toluene-d8	*0.063*		*"*	*0.0625*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.068*		*"*	*0.0625*		*109*	*70-130*			

Origins Laboratory, Inc.

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Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Apex Companies, LLC
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Scott Pieratt
Project Number: 4910-C
Project: JC Hunt Wolf Creek

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0J1201 - EPA 5030B (Water)										
Matrix Spike (B0J1201-MS1)		**Source: Y010134-10**			Prepared: 10/12/2020 Analyzed: 10/14/2020					
Benzene	0.0470	0.00100	mg/L	0.0500	ND	93.9	70-130			
Toluene	0.0490	0.00100	"	0.0500	ND	98.1	70-130			
Ethylbenzene	0.0473	0.00100	"	0.0500	ND	94.6	70-130			
m,p-Xylene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
o-Xylene	0.0483	0.00100	"	0.0500	ND	96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.057*		*"*	*0.0625*		*90.9*	*70-130*			
Surrogate: Toluene-d8	*0.064*		*"*	*0.0625*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.068*		*"*	*0.0625*		*109*	*70-130*			

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

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Project Number: 4910-C
Project: JC Hunt Wolf Creek

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0J1201 - EPA 5030B (Water)										
Matrix Spike Dup (B0J1201-MSD1)		**Source: Y010134-10**			Prepared: 10/12/2020 Analyzed: 10/14/2020					
Benzene	0.0464	0.00100	mg/L	0.0500	ND	92.8	70-130	1.18	20	
Toluene	0.0472	0.00100	"	0.0500	ND	94.3	70-130	3.89	20	
Ethylbenzene	0.0464	0.00100	"	0.0500	ND	92.8	70-130	1.94	20	
m,p-Xylene	0.0912	0.00200	"	0.100	ND	91.2	70-130	2.12	20	
o-Xylene	0.0472	0.00100	"	0.0500	ND	94.5	70-130	2.30	20	
Surrogate: 1,2-Dichloroethane-d4	*0.057*		*"*	*0.0625*		*91.2*	*70-130*			
Surrogate: Toluene-d8	*0.063*		*"*	*0.0625*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.069*		*"*	*0.0625*		*110*	*70-130*			

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ORIGINS LABORATORY, INC

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Scott Pieratt
Project Number: 4910-C
Project: JC Hunt Wolf Creek

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

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