



FEB 20 2018

DSHW-2018-001435

Mr. Morgan Atkinson  
Department of Environmental Quality  
Division of Environmental Response and Remediation  
195 North 1950 West  
Salt Lake City, Utah 84114-4840

February 15, 2018  
Project No.: 1241-026A

RE: Semi-Annual Groundwater Sampling Results and  
Corrective Action Status Update – February 2018  
C-4 Top Stop  
15 South Main Street  
Gunnison, Utah  
UST Facility No. 2000220  
Release Site EMHB

Mr. Atkinson,

On behalf of our client, Wind River Petroleum, Wasatch Environmental, Inc., is submitting the attached  
"Semi-Annual Groundwater Sampling Results and Corrective Action Status Update – February 2018."

Please feel free to contact us with any questions, comments, or concerns you may have regarding the  
Gunnison site.

Best regards,

Michael Cronin, P.G.  
Senior Geologist and Senior Project Manager  
Utah Certified UST Consultant #CC 0232

RECEIVED

FEB 27 2018

Environmental Response &  
Remediation

SCANNED

DERR 2018-001833



FEB 20 2018

Mr. Craig Larson  
Wind River Petroleum  
5097 South 900 East  
Salt Lake City, Utah 84117

February 15, 2018  
Project No.: 1241-026A

**SUBJECT:** Semi-Annual Groundwater Sampling Results and  
Corrective Action Status Update – February 2018  
C-4 Top Stop  
15 South Main Street  
Gunnison, Utah  
UST Facility No. 2000220  
Release Site EMHB

This report has been prepared pursuant to the reporting requirements set forth in the May 9, 2008, Corrective Action Plan (CAP) Summary Letter prepared by Wasatch Environmental, Inc., (Wasatch) on behalf of Wind River Petroleum. This report provides a summary of the following:

- Corrective action status update,
- Groundwater depth and fluctuations,
- Results of the February 2018 semi-annual groundwater sampling, and
- Recommendations.

Questions regarding this report from third parties should be submitted to Morgan Atkinson with the Utah Division of Environmental Response and Remediation (DERR), and written responses will be provided.

#### **CORRECTIVE ACTION STATUS UPDATE**

Wasatch discontinued monitoring the building ventilation subslab systems following the August 2015 groundwater monitoring event. However, given the discovery of a small amount of free product in monitoring well MW-41 (discovered on February 3, 2016, and discussed later in this report), the building subslab ventilation systems for the residences located at 29 West 100 South and 39 West 100 South were checked on February 7, 2018, as a precaution. Both subslab ventilation systems were found to be operating normally. The building subslab ventilation system effluent was checked using a calibrated, parts per billion (ppb)-range, photoionization detector. No volatile organic compounds (VOCs) were detected in the effluent of the subslab ventilation system located at 29 West 100 South. A VOC concentration of 0.31 ppb was detected in the effluent from the subslab ventilation system located at 39 West 100 South. There have been no reports of petroleum vapors or odors in homes or businesses during this reporting period.

A groundwater extraction event using a vacuum truck was also conducted on February 1, 2018, in an attempt to remove free product and contaminated groundwater from monitoring well MW-41. The vacuum extraction was performed by H2O Environmental, Inc., with oversight by Wasatch, and utilized both a down-well stinger and connection of the vacuum line directly to the top of the well casing. Approximately 500 gallons of fluid (groundwater and free product) was removed from monitoring well MW-41. The fluid was disposed at Beck's Sanitation, Inc., located in Salt Lake City, Utah. The free product did not re-accumulate in the monitoring well immediately following the vacuum extraction. An absorbent sock was not placed back in the well following the vacuum extraction event so that the accumulation of free product in the monitoring well could be measured during the February 7, 2018, groundwater monitoring event.

The absorbent sock was placed back in the monitoring well following the completion of the groundwater monitoring event.

## **GROUNDWATER DEPTH AND FLUCTUATIONS**

Based on measurements collected on February 7, 2018, groundwater elevations decreased an average of 1.27 feet since August 2017 (see Table 1, Appendix A).

## **SEMI-ANNUAL GROUNDWATER SAMPLING**

Semi-annual groundwater monitoring was successfully completed at three monitoring wells (MW-27, MW-41, and MW-43) at the site on February 7, 2018.

Free product did not re-accumulate in monitoring well MW-41 between the groundwater extraction event conducted on February 1, 2018, and the groundwater monitoring event conducted on February 7, 2018.

Groundwater monitoring was conducted using low-flow sampling techniques using a peristaltic pump and a multi-parameter Troll 9500 meter to allow for the collection of additional geochemical data including temperature, specific conductivity, pH, oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity.

Groundwater samples were collected using a low-flow sampling procedure following United States Environmental Protection Agency (U.S. EPA) guidelines. The sampling procedure involved inserting ¼-inch, low-density polyethylene tubing into each monitoring well. The tubing was run through a peristaltic pump, then to a flow cell to which a multi-parameter Troll 9500 meter was attached, and finally to a 5-gallon bucket to collect the purge water. Initial water levels were measured and recorded prior to the initiation of pumping. Once pumping was initiated, water levels, pumping rate, cumulative volume purged, water temperature, specific conductivity, pH, ORP, DO, and turbidity were recorded at five-minute intervals until either stabilization was achieved or the well pumped dry. Pumping rates were maintained at a rate of 100 milliliters per minute to minimize drawdown. Stabilization was defined as three consecutive measurement intervals where temperature and specific conductivity were +/- 3%, pH was +/- 0.1, DO was +/-10% (or less than 0.5 mg/L), and turbidity was +/- 10% (or less than 5 nephelometric turbidity units [NTUs]). If monitoring wells pumped dry, they were allowed to recharge to a minimum of at least 90% of their static water level prior to sampling. After stabilization was achieved, the tubing was disconnected from the flow cell and the groundwater samples were dispensed into 40-milliliter capacity, glass vials with Teflon® septa caps. The vials, which were supplied by the analytical laboratory, contained several drops of hydrochloric acid as a preservative. The vials were filled slowly until a meniscus formed at the top of each vial, then each vial was sealed with a septa cap. This procedure eliminates headspace within the vials and minimizes the loss of volatiles. The sample vials were each labeled with the analysis required, samplers name, sample identification, sample location, date, and time of sample collection. The samples were placed in a cooler with ice and transported under chain-of-custody protocol to American West Analytical Laboratories for analysis. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline-range organics (TPH-GRO), benzene, toluene, ethylbenzene, xylenes, and naphthalene using U.S. EPA method 8260C.

A summary of current and historical groundwater analytical results is presented in Table 2 (Appendix B). Low-flow sampling forms are presented in Appendix C. The current laboratory analytical results are presented in Appendix D.

Analytical results from the February 2018 groundwater monitoring event indicate that two of the monitoring wells sampled (MW-27 and MW-41) exhibited analyte concentrations exceeding the Initial Screening Levels (ISLs) for some analytes, and no analytes were detected in the third monitoring well (MW-43). The TPH-GRO concentrations in monitoring wells MW-27 (10.7 milligrams per liter [mg/L]) and MW-41 (1.29 mg/L) exceeded the ISL for TPH-GRO of 1 mg/L. The benzene concentrations in monitoring

wells MW-27 (0.0822 mg/L) and MW-41 (0.195 mg/L) exceeded the ISL for benzene of 0.005 mg/L. The toluene concentration in monitoring well MW-27 (1.50 mg/L) exceeded the ISL for toluene of 1 mg/L. The ethylbenzene concentration in monitoring well MW-27 (1.76 mg/L) exceeded the ISL for ethylbenzene of 0.7 mg/L. The locations of monitoring wells and the February 2018 benzene concentrations in groundwater are presented on Figure 1. Laboratory analytical results are summarized in Table 2, Appendix B.

Although the analyte concentrations in monitoring well MW-27 have increased since the February 2017 groundwater monitoring event, they still clearly indicate a decreasing trend over the long term. The analyte concentrations in monitoring well MW-41 have been decreasing since the August 2016 groundwater monitoring event, and also indicate a decreasing trend over the long term.

As no analytes have been detected in monitoring well MW-43 for a period of one year, in accordance with the approved Corrective Action Plan, dated May 31, 2013; monitoring well MW-43 will be removed from the groundwater monitoring program. The next groundwater monitoring event is scheduled for August 2018. Groundwater monitoring wells MW-27 and MW-41 will be sampled during this event.

## RECOMMENDATIONS

Wasatch recommends that the absorbent sock in monitoring well MW-41 continue to be checked every six months and replaced as necessary, the subslab ventilation systems at the residences located at 29 West 100 South and 39 West 100 South also be checked every six months, and that vacuum truck extraction of free product and impacted groundwater from monitoring well MW-41 be performed every six months. Wasatch further recommends that the vacuum truck be used to extract contaminated groundwater from monitoring well MW-27 in an effort to reduce dissolved phase concentrations in the vicinity of that well. These measures will be performed in conjunction with the groundwater monitoring events.

Our services consist of professional opinions and recommendations made in accordance with generally accepted environmental engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied. Should you have any questions, please do not hesitate to contact us.

Sincerely,

WASATCH ENVIRONMENTAL, INC.



Michael Cronin, P.G.  
Sr. Geologist and Project Manager  
Utah UST Certified Consultant #CC-0232

Copies: Addressee (2)  
Mr. Morgan Atkinson, Utah DERR (1)  
Gunnison City (1)

**Figures**

Figure 1 – February 2018 Benzene Concentrations in Groundwater

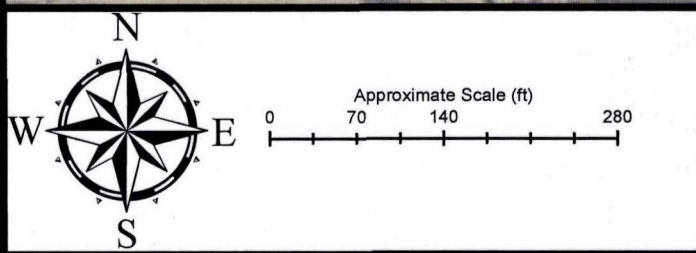
**Appendices**

- Appendix A – Table 1 – Historical Depth to Groundwater
- Appendix B – Table 2 – Historical Groundwater Chemistry
- Appendix C – Low Flow Groundwater Sampling Forms
- Appendix D – Groundwater Laboratory Analytical Report





Legend	
	Semi-Annual Monitoring Well
	Monitoring Well
	SVE Extraction Well
	Groundwater Extraction Well
	Building Ventilation System
	SVE System
	Water Meter
	Sewer Manhole
	SVE Trench System



**WASATCH**  
 ENVIRONMENTAL  
 Environmental & Infrastructure Solutions

February 2018 Benzene Concentrations In Groundwater		
Gunnison, Utah		
PROJECT NO.	DRAWING DATE	FIGURE 1
1241-026A	February 12, 2018	



**Appendix A**

**Table 1 – Historical Depth to Groundwater**

Table 1  
 Historical Depth to Groundwater  
 Gunnison Remediation  
 15 South Main Street  
 Gunnison, Utah

Sample Identity	Date	Depth to Groundwater (ft)
TW-1	01/11/08	12.50
	02/26/08	12.36
	06/26/08	12.29
TW-2	01/11/08	13.22
	02/26/08	13.06
	06/26/08	12.76
TW-3	01/11/08	12.23
	02/26/08	12.32
	06/26/08	12.03
	08/22/08	10.71
	09/16/08	10.41
	10/22/08	10.44
	12/01/08	11.21
	12/09/08	11.34
	12/19/08	11.51
	12/30/08	11.67
	01/06/09	11.78
	01/20/09	11.43
	01/27/09	11.32
	02/03/09	11.22
	02/10/09	11.19
	02/17/09	11.13
	02/24/09	11.17
	03/10/09	11.75
	03/17/09	11.88
	03/27/09	12.14
	04/02/09	12.25
	04/08/09	12.34
	04/15/09	11.89
	04/28/09	12.10
	05/05/09	11.87
	05/11/09	11.84
	05/20/09	11.62
	05/27/09	11.74
	06/10/09	11.29
	06/18/09	11.03
	06/23/09	10.87
	07/08/09	11.22
	07/21/09	11.22
	08/04/09	10.59
	08/12/09	10.55
	09/16/09	10.62
	09/30/09	10.38
	10/15/09	10.20
	11/03/09	10.27
	05/18/10	11.78
06/30/10	9.65	
07/13/10	10.36	
08/02/10	10.29	
09/21/10	10.18	
11/22/10	9.77	
02/24/11	11.07	
05/26/11	10.19	
08/25/11	8.58	
02/27/12	10.71	
08/09/12	9.27	
02/20/13	11.97	
TW-4	01/11/08	17.93
	06/26/08	15.95
	04/03/10	15.97
	04/14/10	15.90
	05/05/10	15.51
	05/18/10	15.34
	07/13/10	14.51
	08/02/10	14.45
01/06/11	14.90	



**Table 1**  
**Historical Depth to Groundwater**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

TW-6	12/19/07	13.86
	06/26/08	13.46
	04/03/10	14.10
	04/14/10	14.01
	05/05/10	13.67
	05/18/10	13.55
	07/13/10	12.93
	08/02/10	12.73
	01/06/11	12.75
WS-1	01/11/08	13.19
	02/26/08	13.59
	06/25/08	11.62
WS-2	01/11/08	12.61
	02/26/08	11.31
	06/25/08	11.23
	11/18/08	9.93
	01/14/09	11.95
	01/20/09	11.94
	01/27/09	11.92
	02/10/09	12.20
	02/24/09	12.19
	03/03/09	12.52
	03/10/09	12.48
	03/17/09	12.75
	04/08/09	13.11
	04/15/09	13.07
	05/11/09	12.41
	05/20/09	12.02
	06/10/09	11.18
	06/18/09	10.68
	06/23/09	10.56
	07/08/09	10.16
	07/21/09	9.86
	08/04/09	9.34
	08/12/09	9.19
	09/16/09	8.77
	09/30/09	8.77
	10/15/09	8.63
	11/11/09	9.19
	12/23/09	10.85
	01/27/10	11.22
	02/22/10	11.81
	04/03/10	12.16
	04/14/10	13.54
	05/05/10	11.80
05/18/10	11.61	
07/13/10	9.41	
08/02/10	8.99	
09/21/10	8.16	
11/22/10	7.67	
02/24/11	10.92	
05/26/11	9.24	
06/24/11	8.67	
08/25/11	7.35	
02/28/12	10.64	
08/09/12	8.61	
02/20/13	12.67	
08/14/13	8.46	
02/12/14	11.50	
08/04/14	7.78	
WS-3	01/11/08	10.50
	02/26/08	10.17
	06/25/08	10.21

**Table 1**  
**Historical Depth to Groundwater**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

MW-1	Date	Depth (ft)
	11/27/07	11.55
	12/19/07	11.89
	01/11/08	11.98
	02/26/08	11.85
	06/26/08	11.64
	08/22/08	10.84
	09/16/08	10.92
	10/22/08	11.06
	11/24/08	11.32
	12/01/08	11.43
	12/09/08	11.51
	12/19/08	11.61
	12/30/08	11.72
	01/06/09	11.78
	01/20/09	11.76
	01/27/09	11.43
	02/03/09	11.54
	02/10/09	11.54
	02/17/09	11.52
	02/24/09	11.52
	03/10/09	11.74
	03/17/09	11.68
	03/27/09	12.01
	04/02/09	12.07
	04/08/09	12.13
	04/15/09	12.00
	04/28/09	11.97
	05/11/09	11.72
	05/20/09	11.61
	05/27/09	11.50
	06/10/09	10.78
	06/18/09	10.78
	06/23/09	10.71
	07/08/09	11.00
	07/21/09	11.07
	08/04/09	10.99
	08/12/09	10.94
	09/16/09	10.85
	09/30/09	10.82
	10/15/09	10.82
	11/03/09	10.71
	11/11/09	10.80
	12/23/09	11.23
	01/27/10	11.67
	02/02/10	11.78
	03/24/10	11.83
	04/03/10	11.67
	05/18/10	11.55
	06/30/10	9.66
	07/13/10	10.42
	08/02/10	10.78
	09/21/10	11.01
	11/22/10	10.65
	02/24/11	11.15
	05/26/11	10.29
	08/25/11	8.77
	02/27/12	9.54
	08/09/12	10.28
	02/20/13	11.60

**Table 1**  
**Historical Depth to Groundwater**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

MW-2	11/27/07	11.84
	12/19/07	12.15
	01/11/08	12.28
	02/26/08	12.09
	06/26/08	11.99
	11/18/08	11.70
	02/17/09	11.96
	05/11/09	12.15
	08/04/09	11.62
	11/11/09	11.38
	02/17/10	11.64
	02/22/10	12.16
	03/24/10	12.18
	04/03/10	12.11
	04/14/10	12.20
	05/05/10	12.13
	05/18/10	12.02
07/13/10	11.08	
08/02/10	11.41	
MW-3	11/27/07	11.28
	12/19/07	11.64
	01/11/08	11.83
	02/26/08	11.48
	06/26/08	11.40
	11/18/08	11.04
	02/17/09	11.26
	05/11/09	11.50
	08/04/09	10.80
	11/11/09	10.62
	02/17/10	12.16
	02/22/10	11.56
	03/24/10	11.95
	04/03/10	11.42
	04/14/10	11.67
	05/05/10	11.56
	05/18/10	11.33
07/13/10	10.21	
08/02/10	10.62	
MW-4	11/27/07	12.36
	12/19/07	12.36
	01/11/08	12.62
	02/26/08	12.15
	06/26/08	11.70
MW-5	01/11/08	15.11
	02/26/08	15.59
	06/26/08	14.77
	08/22/08	12.85
	09/16/08	12.93
	10/22/08	12.82
	10/29/08	12.85
	11/18/08	13.24
	12/01/08	13.51
	12/09/08	13.75
	12/19/08	14.10
	12/30/08	14.26
	01/06/09	14.44
	01/20/09	14.42
	01/27/09	14.38
	02/03/09	14.39
	02/10/09	14.43
	02/17/09	14.51
	02/24/09	14.73
	03/03/09	14.91
	03/10/09	15.13
03/17/09	15.28	
03/27/09	15.49	
04/02/09	15.58	
04/06/09	15.67	
04/15/09	15.73	
04/28/09	15.67	



**Table 1**  
**Historical Depth to Groundwater**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

MW-5 (cont'd)	05/11/09	15.35
	05/20/09	15.61
	05/27/09	14.71
	06/10/09	14.64
	06/18/09	14.33
	06/23/09	14.26
	07/08/09	13.67
	07/21/09	13.33
	08/04/09	13.05
	08/12/09	12.78
	09/16/09	12.48
	09/30/09	12.37
	10/15/09	11.85
	11/03/09	12.11
	11/11/09	12.31
	12/23/09	13.44
	02/17/10	14.15
	02/22/10	14.62
	03/24/10	14.73
	04/03/10	14.82
	04/14/10	14.78
	05/05/10	14.31
	05/18/10	13.94
	07/13/10	12.19
	08/02/10	11.89
09/21/10	11.46	
11/22/10	11.46	
02/24/11	13.41	
05/26/11	12.47	
08/25/11	10.49	
02/27/12	12.67	
08/09/12	11.18	
02/20/13	14.75	
MW-6	01/11/08	12.20
	02/26/08	11.74
	06/26/08	11.62
	04/02/09	12.24
MW-7	01/11/08	12.55
	02/26/08	12.07
	06/26/08	11.91
	04/02/09	12.57
MW-8	01/11/08	12.95
	02/26/08	12.44
	06/26/08	12.04
MW-9	01/11/08	15.05
	02/26/08	14.54
	06/26/08	14.37
	11/18/08	13.61
	01/09/09	14.67
	01/27/09	14.11
	02/03/09	14.28
02/17/09	14.20	
02/24/09	14.23	

**Table 1**  
**Historical Depth to Groundwater**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

MW-9 (cont'd)	03/03/09	14.20
	03/10/09	14.13
	03/17/09	14.07
	03/27/09	14.88
	04/02/09	15.02
	04/08/09	15.10
	04/15/09	14.98
	04/28/09	14.87
	05/11/09	14.84
	05/20/09	14.36
	05/27/09	13.74
	06/10/09	13.24
	06/18/09	12.57
	06/23/09	12.66
	07/08/09	13.09
	07/21/09	13.29
	08/04/09	13.34
	08/12/09	13.29
	09/16/09	13.13
	09/30/09	12.90
	10/15/09	13.39
	11/11/09	12.92
	12/23/09	13.91
	02/22/10	14.51
	03/24/10	14.65
	05/18/10	14.03
	06/30/10	11.02
	07/13/10	12.27
	08/02/10	12.93
	09/21/10	13.67
11/22/10	13.13	
02/24/11	13.68	
05/26/11	11.88	
06/24/11	5.40	
08/25/11	9.22	
02/27/12	9.70	
08/09/12	12.90	
02/20/13	13.68	
MW-11	01/11/08	10.08
	02/26/08	10.52
	06/26/08	10.35
	10/22/08	9.42
MW-12	01/11/08	10.60
	02/26/08	8.92
	06/26/08	8.72
	02/17/09	7.98
	02/24/09	8.00
	03/10/09	8.45
	03/17/09	8.58
	03/27/09	8.75
	04/02/09	8.86
	04/08/09	8.92
	04/15/09	8.40
05/05/09	8.26	
05/11/09	8.46	

**Table 1  
Historical Depth to Groundwater  
Gunnison Remediation  
15 South Main Street  
Gunnison, Utah**

<b>MW-12 (cont'd)</b>	05/20/09	8.21
	05/27/09	8.41
	06/10/09	7.75
	06/18/09	7.68
	06/23/09	7.56
	07/08/09	7.96
	07/21/09	7.90
	08/04/09	7.33
	08/12/09	7.26
	09/16/09	7.58
	09/30/09	7.30
	10/15/09	7.13
	11/03/09	7.24
	05/18/10	8.43
	06/30/10	6.59
	07/13/10	7.35
	08/02/10	7.38
	09/21/10	7.28
	11/22/10	6.90
	02/24/11	7.86
05/26/11	7.11	
08/25/11	5.89	
02/27/12	7.55	
08/09/12	6.46	
02/20/13	8.55	
<b>MW-13</b>	01/11/08	9.94
	02/26/08	8.98
	06/26/08	9.83
<b>MW-14</b>	01/11/08	12.34
	02/26/08	12.23
	06/26/08	12.07
	11/18/08	11.15
	12/01/08	11.31
	12/09/08	11.43
	01/27/09	11.41
	02/03/09	11.41
	02/10/09	11.40
	02/17/09	11.38
	02/24/09	11.39
	03/10/09	11.86
	03/17/09	11.98
	03/27/09	12.31
	04/02/09	12.43
	04/08/09	12.52
	04/15/09	12.16
	04/28/09	12.23
	05/05/09	11.81
	05/11/09	11.96
	05/20/09	11.76
	05/27/09	11.82
	06/10/09	11.25
	06/18/09	11.07
	06/23/09	10.91
	07/08/09	11.27
	07/21/09	11.27
	08/04/09	10.90
	08/12/09	10.86
	09/16/09	10.87
	09/30/09	10.41
	10/15/09	10.58
	11/03/09	10.59
05/18/10	11.87	
06/30/10	9.87	
07/13/10	10.56	
08/02/10	10.71	
09/21/10	10.68	
11/22/10	10.20	
02/24/11	11.04	
05/26/11	10.19	
08/25/11	8.87	
02/27/12	10.62	
08/09/12	9.67	
02/20/13	11.92	



**Table 1  
Historical Depth to Groundwater  
Gunnison Remediation  
15 South Main Street  
Gunnison, Utah**

MW-15	02/26/08	12.51
MW-17	02/26/08	14.56
	11/18/08	13.19
	02/17/09	14.17
	05/11/09	14.46
	07/21/09	13.20
	08/04/09	13.30
	11/11/09	12.67
	02/22/10	14.41
	05/18/10	14.15
	08/02/10	12.78
MW-18	02/26/08	16.48
MW-19	10/22/08	14.78
	11/18/08	14.99
	02/17/09	14.67
	05/11/09	16.39
	08/04/09	15.02
	11/11/09	14.54
	02/22/10	16.04
	05/18/10	15.77
		08/02/10
MW-20	10/22/08	15.40
	11/18/08	15.68
	02/17/09	15.86
	05/11/09	16.98
	08/04/09	15.72
	11/11/09	15.11
	02/22/10	16.81
	04/03/10	16.87
	04/14/10	16.85
	05/05/10	16.77
	05/18/10	16.55
	07/13/10	15.03
	08/02/10	14.82
	11/22/10	14.45
	02/24/11	15.88
	05/26/11	15.02
	06/24/11	14.02
	08/25/11	13.44
	02/27/12	15.41
	08/09/12	13.95
02/20/13	16.79	
08/14/13	15.36	
02/12/14	16.86	
	08/04/14	15.92
MW-21	10/22/08	10.05
	11/18/08	10.17
	02/17/09	11.00
	05/11/09	11.52
	08/04/09	9.82
	11/11/09	9.52
	02/22/10	10.85
	05/18/10	10.30
		08/02/10

**Table 1**  
**Historical Depth to Groundwater**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

MW-22	10/22/08	12.70
	11/18/08	10.18
	11/24/08	10.28
	02/17/09	13.20
	05/11/09	10.47
	08/04/09	10.05
	11/11/09	9.35
	02/22/10	11.28
	03/24/10	11.20
	04/03/10	11.26
	04/14/10	11.22
	05/05/10	10.59
	05/18/10	10.30
	07/13/10	9.08
	08/02/10	8.88
	11/22/10	8.91
	02/24/11	9.99
	05/26/11	9.49
	08/25/11	8.04
	02/27/12	9.83
08/10/12	8.16	
MW-23	10/22/08	8.61
	11/18/08	12.93
	11/24/08	13.03
	12/09/08	13.30
	02/17/09	13.28
	03/27/09	14.12
	04/08/09	14.28
	04/15/09	14.33
	04/28/09	14.37
	05/11/09	14.29
	05/20/09	14.19
	05/27/09	14.08
	06/10/09	13.94
	06/18/09	13.81
	06/23/09	13.76
	07/08/09	13.56
	07/21/09	13.39
	08/04/09	13.10
	08/12/09	13.02
	09/16/09	12.65
	09/30/09	12.55
	10/15/09	12.33
	11/03/09	12.29
	11/11/09	12.40
	12/23/09	13.01
	01/27/10	13.66
	02/22/10	13.84
	03/24/10	13.89
	04/03/10	13.92
	04/14/10	13.90
	05/05/10	13.39
	05/18/10	13.24
	07/13/10	12.75
08/02/10	12.50	
09/21/10	12.17	
11/22/10	11.98	
02/24/11	13.24	
05/26/11	12.81	
06/24/11	12.28	
08/25/11	11.37	
02/27/12	12.89	
08/10/12	11.64	
02/20/13	13.87	

**Table 1**  
**Historical Depth to Groundwater**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

MW-24	10/22/08	9.99
	11/18/08	8.78
	11/24/08	8.88
	02/17/09	9.96
	05/11/09	11.88
	08/04/09	8.60
	11/11/09	8.07
	02/22/10	9.77
	05/18/10	9.00
	08/02/10	7.58
MW-25	10/22/08	14.24
	11/18/08	14.48
	02/17/09	15.16
	05/11/09	16.04
	08/04/09	14.29
	11/11/09	14.01
	02/22/10	15.53
	05/18/10	15.15
	08/02/10	13.81
	11/22/10	13.62
	02/24/11	14.87
	05/26/11	14.23
	08/25/11	13.12
	02/27/12	14.66
	08/09/12	13.59
02/20/13	15.71	
MW-26	10/22/08	12.61
	11/18/08	13.18
	02/17/09	13.94
	05/11/09	14.82
	08/04/09	13.00
	11/11/09	12.50
	02/22/10	14.30
	03/24/10	14.41
	04/03/10	14.46
	04/14/10	14.45
	05/05/10	13.94
	05/18/10	13.77
	07/13/10	12.54
	08/02/10	12.33
	11/22/10	12.02
	02/24/11	13.53
	05/26/11	12.83
	08/25/11	11.40
	02/27/12	13.27
	08/09/12	11.92
02/20/13	14.52	
08/14/13	12.21	
02/12/14	14.60	
08/04/14	12.19	
MW-27	10/22/08	12.42
	11/18/08	12.74
	02/17/09	13.65
	05/11/09	14.43
	08/04/09	12.52
	11/11/09	11.95
	02/22/10	13.87
	03/24/10	13.97
	04/03/10	14.01
	04/14/10	13.97
	05/05/10	13.44
	05/18/10	13.26
	07/13/10	11.86
	08/02/10	11.67
	11/22/10	11.35
	02/24/11	12.93
	05/26/11	12.16
	06/24/11	11.39
	08/25/11	10.46
	02/27/12	12.46
	08/09/12	11.07
	02/20/13	13.98
	08/14/13	11.59
	02/12/14	14.08
	08/04/14	11.52
	02/12/15	14.01
	08/04/15	13.66
	02/03/16	14.80
08/01/16	13.47	
02/07/17	14.49	
08/03/17	12.93	
02/07/18	14.01	



**Table 1  
Historical Depth to Groundwater  
Gunnison Remediation  
15 South Main Street  
Gunnison, Utah**

MW-28	10/22/08	13.41
	11/18/08	13.76
	02/17/09	13.47
	05/11/09	15.57
	08/04/09	13.93
	11/11/09	12.93
	02/22/10	14.98
	05/18/10	14.66
	08/02/10	13.17
MW-29	10/22/08	13.75
	11/18/08	13.99
	02/17/09	14.07
	05/11/09	15.27
	08/04/09	13.75
	05/18/10	14.99
	07/13/10	13.20
	08/02/10	13.03
	11/22/10	12.52
	02/24/11	14.19
	05/26/11	13.36
	08/25/11	11.57
	02/27/12	13.90
	08/09/12	12.15
02/20/13	15.16	
MW-30	10/22/08	10.97
	11/18/08	11.08
	02/17/09	11.31
	05/11/09	11.51
	08/04/09	10.74
	11/11/09	10.63
	02/22/10	11.54
	05/18/10	11.42
	08/02/10	10.61
MW-31	10/22/08	10.94
	11/18/08	11.15
	02/17/09	12.33
	05/11/09	13.02
	08/04/09	11.04
	11/11/09	10.29
	02/22/10	12.14
	05/18/10	11.34
	08/02/10	9.77
MW-32	05/11/09	9.25
	08/04/09	8.87
	11/11/09	8.75
	02/22/10	9.08
	05/18/10	8.80
	08/02/10	8.53
MW-33	05/11/09	14.95
	06/10/09	14.62
	08/04/09	14.92
	11/11/09	15.42
	02/22/10	15.38
	05/18/10	15.04
	08/02/10	14.21
MW-34	05/11/09	17.93
	08/04/09	14.51
	11/11/09	14.05
	02/22/10	17.31
	05/18/10	16.89
	08/02/10	14.07
MW-35	05/11/09	15.73
	08/04/09	13.86
	11/11/09	13.14
	02/22/10	15.24
	05/18/10	14.93
	08/02/10	13.23

**Table 1**  
**Historical Depth to Groundwater**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

MW-36	05/11/09	11.76
	08/04/09	9.37
	11/11/09	9.02
	02/22/10	11.09
	04/03/10	11.18
	04/14/10	10.98
	05/05/10	10.24
	05/18/10	10.08
	07/13/10	8.48
08/02/10	8.72	
MW-37	05/11/09	16.64
	08/04/09	14.45
	11/11/09	14.02
	01/27/10	15.15
	02/22/10	15.38
	02/22/10	15.38
	03/24/10	15.44
	04/03/10	15.41
	04/14/10	15.45
	05/05/10	15.32
	05/18/10	15.15
	07/13/10	13.69
	08/02/10	13.70
	11/22/10	13.56
	02/24/11	14.44
	05/26/11	13.70
08/25/11	11.72	
02/27/12	13.55	
08/09/12	12.97	
MW-38	11/11/09	15.91
	02/22/10	17.31
	05/18/10	17.05
	08/02/10	15.50
MW-39	11/11/09	15.59
	02/22/10	16.91
	05/18/10	16.63
	08/02/10	15.30
	11/22/10	15.12
	02/24/11	15.97
	05/26/11	15.24
	08/25/11	13.25
	02/27/12	14.73
08/09/12	14.61	
MW-40	11/11/09	15.57
	02/22/10	16.71
	05/18/10	16.47
	08/02/10	15.33
	11/22/10	15.17
	02/24/11	15.91
	05/26/11	15.19
	06/24/11	6.31
	08/25/11	13.41
02/27/12	14.69	
08/09/12	14.76	
MW-41	02/20/13	12.77
	08/14/13	10.06
	02/12/14	12.50
	08/04/14	10.48
	02/12/15	12.87
	08/04/15	12.55
	02/03/16	14.51
	08/01/16	12.36
	02/07/17	13.36
08/03/17	11.59	
02/07/18	12.93	
MW-42	02/20/13	18.50
	04/17/13	17.14
	08/14/13	13.43
	02/12/14	15.37
	08/04/14	15.03
	02/12/15	dry
	08/04/15	dry
	02/03/16	17.32
08/01/16	17.76	
MW-43	02/07/17	13.42
	08/03/17	11.64
	02/07/18	13.02

**Appendix B**

**Table 2 – Historical Groundwater Chemistry**

**Table 2**  
**Historical Groundwater Chemistry**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
<b>Initial Screening Levels</b>		1	1	0.005	1	0.7	10	0.7	
MW-1	11/27/07	7.6	0.032	2.8	0.85	0.02	3.8	0.048	11.55
	1/11/08	4.6	<0.020	1.9	0.4	<0.020	1.6	0.051	11.98
	6/26/08	0.082	<0.020	0.029	0.003	<0.002	<0.002	0.039	11.84
MW-2	11/27/07	5.9	0.022	2.4	0.96	0.027	2.3	0.037	11.84
	6/26/08	0.46	0.025	0.13	0.0031	0.0028	0.063	0.054	11.99
	11/19/08	0.052	<0.020	0.01	<0.0020	<0.0020	<0.0020	0.0079	11.70
	2/18/09	0.47	<0.020	0.0047	<0.0020	<0.0020	<0.0020	0.0048	11.96
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.41
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.62
	11/11/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.38
	2/23/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.16
	5/20/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.02
	8/3/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	11.41
MW-3	11/27/07	9.7	0.041	2.8	2.5	0.2	3.9	0.071	11.28
	6/26/08	0.23	0.087	0.012	0.002	<0.002	0.015	0.065	11.40
	11/19/08	<0.020	<0.020	0.001	<0.0020	<0.0020	<0.0020	0.0048	11.04
	2/18/09	0.027	<0.020	<0.010	<0.020	<0.020	<0.020	<0.020	11.26
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.50
	8/6/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.80
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	10.62
	2/23/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.56
MW-4	11/27/07	<0.020	<0.020	<0.002	<0.020	<0.020	<0.002	<0.002	12.36
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	11.70
MW-5	11/27/07	6.3	0.036	4.7	0.62	0.057	1.0	0.089	NM
	1/11/08	8.2	0.021	4.1	0.88	0.11	0.49	0.15	15.11
	6/26/08	0.73	0.099	0.043	<0.002	0.071	0.023	0.11	14.77
	11/19/08	0.260	0.0087	0.0026	0.19	0.0027	0.017	0.017	13.24
	2/18/09	4.8	0.130	0.0025	<0.0020	0.2	<0.0020	<0.0020	14.51
	5/12/09	0.084	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	15.35
	8/8/09	0.086	---	0.001	<0.0020	<0.0020	0.0075	<0.0020	13.05
	11/11/09	<0.020	---	<0.0020	<0.0020	0.0032	<0.0020	<0.0020	12.31
	2/23/10	0.036	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.62
	5/20/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.94
	8/3/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	11.89
	11/22/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	11.46
2/24/11	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.41	

Table 2  
 Historical Groundwater Chemistry  
 Gunnison Remediation  
 15 South Main Street  
 Gunnison, Utah

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW-6	6/26/08	0.035	<0.020	<0.002	<0.002	<0.002	0.0034	0.0026	11.62
MW-7	1/11/08	3.9	<0.020	0.14	0.32	<0.020	1.5	<0.020	12.55
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	11.91
MW-8	1/11/08	4.7	0.020	0.9	0.21	<0.0020	1.8	0.081	12.95
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	12.04
MW-9	1/11/08	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	15.05
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	14.37
	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.61
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.20
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.84
	8/6/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.34
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	12.92
	2/23/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.51
MW-10	---	---	---	---	---	---	---	---	Dry
MW-11	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.08
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	10.35
MW-12	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.60
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	8.72
MW-13	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.94
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	9.83
MW-14	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.34
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	12.07
	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.15
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.38
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.96
	8/6/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.90
	5/19/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.87
	8/3/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	10.71
MW-15	2/27/08	1.1	<0.020	0.49	0.039	<0.0020	0.45	0.0043	12.51
	6/26/08*	---	---	---	---	---	---	---	---
MW-16	---	---	---	---	---	---	---	---	Dry
MW-17	2/27/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.56
	6/26/08	0.22	<0.020	0.089	<0.002	<0.002	0.024	0.0056	NM
	11/18/08	0.56	<0.020	0.28	0.0023	<0.0020	0.0034	0.0082	13.19
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.17
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.46
	8/6/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.30
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	12.67
	2/23/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.41

**Table 2**  
**Historical Groundwater Chemistry**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW-18	6/26/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	NM
MW-19	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.99
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.67
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	16.39
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	15.02
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	14.54
	2/23/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	16.04
MW-20	11/18/08	4.1	0.130	2.7	0.014	0.21	0.6	0.18	15.68
	2/19/09	14	0.170	2.6	0.068	0.6	0.72	0.16	15.66
	5/13/09	3	0.084	1.4	0.026	0.25	0.056	0.18	16.98
	8/5/09	2.7	---	1.3	0.037	0.33	0.035	0.2	15.72
	11/11/09	5.3	---	1.3	0.028	0.3	0.027	0.22	15.11
	2/23/10	1.6	---	0.67	0.015	0.19	0.0066	0.053	16.81
	5/20/10	1.3	---	0.39	0.0089	0.076	0.0065	0.032	16.55
	8/3/10	0.848	---	0.277	0.0093	0.050	0.0063	0.026	14.82
	11/22/10	0.590	---	0.00469	<0.00200	<0.00200	0.00244	<0.00200	14.45
	2/24/11	0.639	---	0.00509	<0.00200	<0.00200	0.00351	0.0039	15.88
	5/26/11	0.998	---	0.00187	<0.00200	<0.00200	<0.00200	<0.00200	15.02
	8/25/11	0.568	---	<0.00100	<0.00200	<0.00200	<0.00200	0.0032	13.44
	2/27/12	0.318	---	0.0121	<0.00200	<0.00200	<0.00200	0.00236	15.41
	8/9/12	0.415	---	<0.00100	<0.00200	<0.00200	<0.00200	0.00257	13.95
	2/20/13	0.256	---	0.00263	<0.00200	<0.00200	<0.00200	<0.00200	16.79
	8/14/13	0.126	---	<0.00100	<0.00200	<0.00200	0.00606	0.00229	15.36
2/12/14	0.235	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	16.86	
8/4/14	0.098	---	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	15.92	
MW-21	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.17
	2/19/09	<0.020	<0.020	<0.0010	0.0025	<0.0020	<0.0020	<0.0020	11.00
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.52
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.82
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	9.52
	2/23/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.85
	5/19/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.30
	8/3/10	<0.0200	---	<0.0100	<0.00200	<0.00200	<0.00200	<0.00200	9.00
MW-22	11/18/08	1.2	0.044	0.42	0.013	<0.0020	0.0034	0.11	10.18
	2/19/09	2.3	0.034	0.21	0.0089	0.003	0.004	0.0094	13.20
	5/13/09	0.42	<0.020	0.24	0.0035	<0.0020	<0.0020	<0.0020	10.47
	8/5/09	0.32	---	0.19	0.003	0.0035	<0.0020	0.0089	10.05
	11/11/09	1.7	---	0.44	0.0074	0.0027	0.0024	0.027	9.35
	2/23/10	0.22	---	0.11	0.0027	0.018	<0.0020	0.0020	11.28
	5/20/10	0.58	---	0.22	0.023	0.013	0.16	0.0089	10.30
	8/3/10	0.267	---	0.0777	<0.00200	0.00212	<0.00200	<0.00200	8.88
	11/22/10	0.111	---	0.00125	<0.00200	<0.00200	0.00215	<0.00200	8.91
	2/24/11	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	9.99
	5/26/11	0.0940	---	0.00850	<0.00200	<0.00200	<0.00200	<0.00200	9.49
	8/25/11	0.0524	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	8.04
	2/27/12	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	9.83
8/10/12	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	8.16	



Table 2  
 Historical Groundwater Chemistry  
 Gunnison Remediation  
 15 South Main Street  
 Gunnison, Utah

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW-23	11/18/08	11	<1.0	1.2	0.4	0.9	2.1	0.22	12.93
	2/19/09	16	<0.40	1.3	0.091	1.8	2.9	0.49	13.28
	5/12/09	2.7	<0.20	0.47	0.046	0.72	0.78	0.063	14.29
	8/5/09	2.8	---	0.57	0.025	0.81	0.7	0.22	13.10
	11/11/09	2.5	---	0.2	0.0094	0.4	0.31	0.21	12.40
	2/23/10	1.7	---	0.090	0.0021	0.39	0.40	0.17	13.64
	5/20/10	0.73	---	0.065	0.0050	0.25	0.029	0.11	13.24
	8/3/10	0.998	---	0.0576	0.00563	0.201	0.0322	0.158	12.50
	11/22/10	1.89	---	0.0180	0.00284	0.499	0.00544	0.228	11.98
	2/24/11	1.81	---	0.00568	<0.00200	0.194	0.0318	0.161	13.24
	5/26/11	0.424	---	0.00563	<0.00200	0.0339	<0.00200	0.0195	12.81
	8/25/11	0.492	---	0.02890	<0.00200	<0.00200	0.0072	0.137	11.37
	2/27/12	0.131	---	0.00130	<0.00200	0.00799	<0.00200	0.00334	12.89
	8/10/12	0.986	---	0.00859	<0.00200	0.00585	0.0115	0.123	11.64
2/20/13	0.214	---	0.00301	<0.00200	0.0281	0.0135	0.00856	13.87	
MW-24	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	8.78
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.96
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.88
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	8.60
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	8.07
	2/23/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.77
	5/19/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.00
	8/4/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	7.58
MW-25	11/18/08	2	0.380	0.42	0.021	0.24	0.29	0.17	14.48
	2/19/09	13	0.220	0.19	0.012	0.28	0.25	0.12	15.16
	5/12/09	0.61	0.028	0.031	<0.0020	0.033	0.0052	0.044	16.04
	8/5/09	0.61	---	0.029	0.0022	0.055	0.0054	0.059	14.29
	11/11/09	0.5	---	0.0052	<0.0020	0.0094	<0.0020	0.0086	14.01
	2/23/10	0.45	---	0.0024	<0.0020	0.036	<0.0020	0.033	15.53
	5/19/10	0.32	---	0.0023	<0.0020	0.0023	<0.0020	0.0078	15.15
	8/3/10	0.240	---	0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.81
	11/22/10	0.0561	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.62
	2/24/11	0.291	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	14.87
	5/26/11	0.653	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	14.23
	8/25/11	0.0980	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.12
	2/28/12	0.0504	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	14.66
	8/9/12	<0.0200	---	<0.00100	0.00235	<0.00200	0.00325	<0.00200	13.59
2/20/13	0.0937	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	15.71	

Table 2  
 Historical Groundwater Chemistry  
 Gunnison Remediation  
 15 South Main Street  
 Gunnison, Utah

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW-26	11/18/08	4.9	<0.40	1.1	0.044	0.19	0.27	0.061	13.18
	2/19/09	9.9	0.570	1.2	0.064	0.71	1	0.62	13.94
	5/12/09	1.9	0.130	0.38	0.015	0.2	0.087	0.076	14.82
	8/5/09	0.7	---	0.21	0.008	0.059	0.021	0.086	13.00
	11/11/09	2.3	---	0.24	0.15	0.15	0.14	0.092	12.50
	2/24/10	1.3	---	0.10	0.0066	0.23	0.17	0.12	14.30
	5/20/10	0.65	---	0.047	0.0063	0.053	0.037	0.029	13.77
	8/3/10	0.924	---	0.322	0.0125	0.0207	0.0227	0.0236	12.33
	11/22/10	1.21	---	0.0906	0.00324	0.117	0.00849	0.00532	12.02
	2/24/11	1.10	---	0.0247	<0.00200	0.0599	0.00746	0.00585	13.53
	5/26/11	0.642	---	0.0367	<0.00200	0.00940	0.00521	<0.00200	12.83
	8/25/11	0.882	---	0.119	0.00907	0.06810	0.0195	0.00761	11.40
	2/28/12	0.905	---	0.0185	<0.00200	0.0893	0.00695	0.00382	13.27
	8/9/12	0.228	---	0.0137	<0.00200	0.0143	0.00485	0.00393	11.92
	2/20/13	0.285	---	0.00808	<0.00200	0.0188	0.00826	0.00526	14.52
	8/14/13	0.0783	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	12.21
2/12/14	0.182	---	0.00101	<0.00200	<0.00200	<0.00200	<0.00200	14.60	
8/4/14	<0.050	---	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	12.19	
MW-27	11/18/08	94	<2.0	26	36	2.9	16	0.26	12.74
	2/19/09	100	<4.0	35	41	3.2	21	<0.40	13.65
	5/12/09	44	<0.40	13	18	1.0	7.8	0.2	14.43
	8/5/09	51	---	13	24	1.8	10	0.3	12.52
	11/11/09	120	---	22	54	4.1	34	0.57	11.95
	2/24/10	41	---	9.0	19	1.5	9.0	0.27	13.87
	5/20/10	43	---	9.0	20	1.4	9.7	0.23	13.26
	8/3/10	84.9	---	7.29	36.5	2.59	18.2	0.265	11.67
	11/22/10	50.9	---	2.87	25.9	2.54	18.0	0.490	11.35
	2/24/11	30.9	---	0.789	17.1	1.46	11.0	0.276	12.93
	5/26/11	43.4	---	0.703	22.4	2.44	16.3	<0.200	12.16
	8/25/11	40.9	---	0.426	19.1	2.49	17.2	0.462	10.46
	2/28/12	29.3	---	0.325	9.36	1.37	9.44	0.251	12.46
	8/9/12	42.7	---	0.663	13.2	3.60	22.7	0.538	11.07
	2/21/13	15.5	---	0.237	4.36	1.08	6.31	0.190	13.98
	8/14/13	19.5	---	0.453	2.66	2.72	12.3	0.354	11.59
	2/12/14	8.87	---	0.0957	0.612	1.18	5.54	0.233	14.08
	8/5/14	41.000	---	0.100	0.310	1.600	6.440	0.210	11.52
2/12/15	9.35	---	0.106	0.165	1.38	6.23	0.219	14.01	
8/4/15	7.32	---	0.101	0.0961	1.17	4.20	0.201	13.66	
2/4/16	0.365	---	0.00530	0.00612	<0.00200	0.251	0.0131	14.80	
8/1/16	5.68	---	0.0895	0.572	0.898	3.30	0.145	13.47	
2/8/17	3.02	---	0.0334	0.251	0.487	1.20	0.119	14.49	
8/3/17	6.98	---	0.0707	0.674	1.14	3.66	0.237	12.93	
2/7/18	10.7	---	0.0822	1.50	1.76	5.32	0.268	14.01	
MW-28	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.76
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.47
	5/12/09	<0.020	<0.020	0.0036	<0.0020	<0.0020	<0.0020	<0.0020	15.57
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.93
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	12.93
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.98
	5/19/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.66
8/3/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.17	

**Table 2**  
**Historical Groundwater Chemistry**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW-29	11/18/08	2.01	<0.20	<0.010	<0.020	0.56	2.7	0.28	13.99
	2/19/09	1.18	0.410	0.022	<0.020	0.24	0.55	0.22	14.07
	5/13/09	2.18	0.220	<0.010	<0.020	0.076	0.13	0.094	15.27
	8/6/09	1.12	---	<0.0010	<0.0020	0.025	0.014	0.057	13.75
	5/19/10	1.12	---	<0.0010	<0.0020	0.0054	<0.0020	0.011	14.99
	8/4/10	0.566	---	<0.00100	<0.00200	<0.00200	<0.00200	0.00242	13.03
	11/22/10	0.499	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	12.52
	2/24/11	2.01	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	14.19
	5/26/11	1.32	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.36
	8/25/11	0.216	---	<0.00100	<0.00200	<0.00200	<0.00200	0.00230	11.57
	2/27/12	0.218	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.90
	8/9/12	0.185	---	<0.00100	<0.00200	<0.00200	<0.00200	0.00240	12.15
2/21/13	0.369	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	15.16	
MW-30	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.08
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.31
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.51
	8/6/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.74
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	10.63
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.54
MW-31	11/18/08	<0.020	<0.020	<0.0010	<0.0020	0.0027	0.0056	0.0034	11.15
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.33
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.02
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.04
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	10.29
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.14
	5/19/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.34
	8/4/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	9.77
MW-32	5/13/09	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	9.25
	8/6/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	8.87
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	8.75
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.08
	5/19/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	8.80
	8/4/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	8.53
MW-33	5/13/09	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	14.95
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.92
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	15.42
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	15.38

Table 2  
 Historical Groundwater Chemistry  
 Gunnison Remediation  
 15 South Main Street  
 Gunnison, Utah

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW-34	5/13/09	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	17.93
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.51
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	14.05
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	17.31
	5/19/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	16.89
	8/4/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	14.07
MW-35	5/12/09	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	15.73
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.86
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	13.14
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	15.24
	5/19/10	<0.0020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.93
	8/4/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.23
MW-36	5/13/09	0.047	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	11.76
	8/5/09	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.37
	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	9.02
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.09
	5/20/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.08
	8/3/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	8.72
MW-37	5/13/09	0.23	0.064	0.067	0.011	0.13	0.0027	0.11	16.64
	8/5/09	1.2	---	0.46	0.0086	<0.0020	<0.0020	0.027	14.45
	11/11/09	1.3	---	0.078	<0.0020	0.0021	0.0043	<0.0020	14.02
	2/24/10	0.55	---	0.085	0.0034	0.0071	<0.0020	<0.0020	15.38
	5/20/10	0.19	---	0.0033	<0.0020	<0.0020	<0.0020	<0.0020	15.15
	8/4/10	0.0899	---	0.00384	<0.00200	<0.00200	<0.00200	<0.00200	13.70
	11/22/10	0.0374	---	0.00157	<0.00200	<0.00200	<0.00200	<0.00200	13.56
	2/24/11	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	14.44
	5/26/11	0.0774	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.70
	8/25/11	0.0279	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	11.72
	2/27/12	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.55
	8/9/12	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	12.97
MW-38	11/11/09	<0.020	---	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	15.91
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	17.31
MW-39	11/11/09	<0.020	---	0.0021	<0.0020	<0.0020	0.003	<0.0020	15.59
	2/24/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	16.91
	5/19/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	16.63
	8/4/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	15.30
	11/22/10	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	15.12

**Table 2**  
**Historical Groundwater Chemistry**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW-40	11/11/09	0.69	---	0.026	<0.0020	<0.0020	0.0041	<0.0020	15.57
	2/24/10	0.29	---	0.022	<0.0020	0.0021	<0.0020	<0.0020	16.71
	5/19/10	0.12	---	0.0017	<0.0020	<0.0020	<0.0020	<0.0020	16.47
	8/4/10	0.0378	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	15.33
	11/22/10	0.0478	---	0.00104	<0.00200	<0.00200	<0.00200	<0.00200	15.17
	2/24/11	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	15.91
	5/26/11	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	15.19
	8/25/11	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.41
	2/27/12	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	14.69
MW-41	9/26/12	39.9	---	6.68	16.5	2.37	10.9	<0.400	10.04
	2/21/13	23.1	---	2.38	5.71	1.39	5.66	0.283	12.77
	8/14/13	1.65	---	0.674	0.0281	0.417	0.0582	0.00973	10.06
	2/12/14	5.39	---	1.68	1.69	0.511	0.629	0.0355	12.50
	8/4/14	3.900	---	0.620	0.0046	0.330	0.0056	0.011	10.48
	2/12/15	1.58	---	0.427	0.156	0.224	0.229	0.0217	12.87
	8/4/15	1.83	---	0.338	0.211	0.196	0.337	0.0197	12.55
	2/3/16	10.4	---	0.693	3.14	0.827	3.18	0.108	14.51
	8/1/16	9.78	---	1.29	2.98	0.914	3.10	0.152	12.36
	2/7/17	1.87	---	0.228	0.0331	0.274	0.368	0.0363	13.36
	8/3/17	3.67	---	0.394	0.162	0.639	1.25	0.127	11.59
	2/7/18	1.29	---	0.195	0.0129	0.301	0.184	0.0244	12.93
	2/21/13	Insufficient water for well development and sampling							
4/17/13	0.0760	---	<0.00100	<0.00200	<0.00200	<0.00200	0.00232	17.14	
8/15/13	0.285	---	<0.00100	<0.00200	0.00920	0.0153	0.00939	13.43	
2/12/14	1.39	---	<0.00100	<0.00200	0.0860	0.0206	0.0227	15.37	
8/4/14	0.730	---	<0.0010	<0.0010	0.0082	0.0034	0.0016	15.03	
2/12/15	Insufficient water for sampling - Well Partially Plugged								---
8/4/15	Insufficient water for sampling - Well Partially Plugged								---
2/4/16	0.0707	---	0.00234	0.00482	0.00333	0.00946	<0.00200	17.32	
8/1/16	Insufficient water for sampling								---
MW-43	2/7/17	0.0236	---	0.00342	<0.00200	<0.00200	<0.00200	<0.00200	13.42
	8/3/17	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	11.64
	2/7/18	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	13.02
TW-1	11/27/07	8.6	0.041	3	0.96	0.0046	3.9	0.097	16.24
	1/4/08	5.8	<0.020	1.2	0.50	<0.0020	2.4	0.11	NM
TW-2	6/26/08	0.081	<0.020	0.0071	<0.002	<0.002	0.027	0.01	12.29
	6/26/08	0.92	0.092	0.038	0.0068	<0.002	0.44	0.056	12.76
TW-3	11/27/07	1.6	<0.020	0.42	0.16	<0.020	0.62	0.032	NM
	1/4/08	0.56	<0.020	0.059	0.0093	<0.002	0.25	0.019	NM
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	12.03
TW-4	1/11/08	27	0.110	6	3.8	0.6	6.4	0.26	17.93
	6/26/08	50	0.930	4.3	11	3.3	27	1.3	15.95
	1/6/11	1,860	---	0.0508	0.00257	0.117	0.170	0.198	14.90
	4/25/2012 <sup>1</sup>	<1.0	<1.0	0.0012	<0.001	0.0003	0.0006	0.0021	15.70
	3/11/2015 <sup>1</sup>	NS	NS	<0.001	<0.001	<0.001	<0.002	<0.001	17.12
6/17/2016 <sup>1</sup>	<1.0	<1.0	<0.001	<0.001	<0.001	<0.002	<0.001	NM	
TW-6	6/26/08	27	0.930	0.6	2.9	1.7	18	1.1	13.46
	1/6/11	<0.0200	---	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	12.75
WS-1	8/14/07	0.12	NS	0.018	0.0071	<0.0020	0.0022	<0.0020	NM
	12/13/07	19	0.200	2.4	2.2	0.6	3.7	0.17	NM
	1/11/08	37	<0.200	5.7	3.2	1.1	5.6	0.23	13.19
	6/25/08	12	<0.020	2.2	3.6	0.32	4.9	0.12	11.62

Table 2  
 Historical Groundwater Chemistry  
 Gunnison Remediation  
 15 South Main Street  
 Gunnison, Utah

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
WS-2	8/14/07	<0.020	NS	0	<0.0020	<0.0020	<0.0020	<0.0020	NM
	12/13/07	7	0.025	2.1	1.9	0.14	0.96	0.02	NM
	1/11/08	0.088	<0.020	0.058	0.011	0.012	0.043	0.0021	12.61
	6/25/08	7.4	<0.020	3.8	0.41	0.23	2.5	<0.02	11.23
	11/19/08	3.1	0.082	0.39	0.21	0.11	0.32	0.063	9.93
	2/19/09	12	0.073	0.82	0.58	0.19	0.85	0.077	12.19
	5/12/09	18	<.40	2.4	3.3	1.5	7	0.97	12.41
	8/6/09	<0.020	---	<0.0010	<0.0020	<0.0020	0.0024	<0.0020	9.34
	11/11/09	13	---	1.9	1.5	0.81	3	0.2	9.19
	2/23/10	<0.020	---	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.81
	5/20/10	3.4	---	0.86	0.52	0.20	1.3	0.091	11.61
	8/3/10	3.03	---	0.386	0.478	0.232	0.999	0.0876	8.99
	11/22/10	0.243	---	0.0164	0.0153	0.00831	0.0366	0.00254	7.67
	2/24/11	0.0570	---	<0.00100	<0.00200	<0.00200	0.00225	<0.00200	10.92
	5/26/11	1.56	---	0.102	0.205	0.106	0.589	0.0304	9.24
	8/25/11	0.403	---	0.0385	0.0351	0.0283	0.117	0.00799	7.35
	2/28/12	0.869	---	0.0665	0.0676	0.0709	0.238	0.0560	10.64
	8/9/12	1.35	---	0.140	0.0881	0.103	0.305	0.0652	8.61
	2/21/13	0.897	---	0.0735	0.0919	0.0626	0.223	0.0176	12.67
	8/14/13	0.274	---	0.0426	0.0198	0.0657	0.102	0.0117	8.46
2/12/14	<0.0200	---	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	11.50	
8/5/14	<0.050	---	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	7.78	
WS-3	12/13/07	6.9	0.500	0.12	<0.020	0.28	<0.020	0.1	NM
	1/11/08	9.2	<0.020	0.22	<0.020	0.38	0.049	0.084	10.50
	9/25/08	0.25	0.077	0.081	<0.002	0.017	0.0073	<0.002	10.21
INITIAL SCREENING LEVEL		1	1	0.005	1	0.7	10	0.7	

<sup>1</sup> = Samples collected by DERR

TPH (GRO) = Total Petroleum Hydrocarbons (Gasoline Range C6 to C10)

TPH (DRO) = Total Petroleum Hydrocarbons (Diesel Range C11 to C15)

< = Concentrations less than the given instrument detection level

SHADED = Measured concentration exceeds Utah Initial Screening Level

\* Note: MW-15 could not be located

\* Note: MW-10 was dry

NS - Not Sampled

NM - Not Measured



**Appendix C**

**Low Flow Groundwater Sampling Forms**



RMSF

### Low-Flow Groundwater Sampling Form

Location/Date 2/7/01 - Garrison Screen Interval Top-      Bot-       
 Well ID MW-43 Purging Device Peristaltic  
 Field Personnel KM Pump Intake (ft. below MP) 14'  
 Measuring Point TOC Total Vol. Purged 3000 ml

Time	Depth to Water (ft)	Pump Setting	Purge Rate (mL/min)	Cum. Vol. Purged (mL)	Temperature (F or C)	Specific (uS/cm)	pH	ORP (mv)	DO (mg/L)	Turbidity (NTU)	Comments
1010	13.02	- Initial									DTW
1015	13.20	25%	100	500	12.76	2192	6.48	-17	0.54	10.8	clear, no odor
1020	13.39	25%	100	1000	12.85	2198	6.46	-14	0.57	12.6	"
1025	13.41	25%	100	1500	12.95	2183	6.45	-9	0.57	17.6	"
1030	13.43	25%	100	2000	12.93	2191	6.43	-11	0.56	16.7	"
1035	13.43	25%	100	2500	12.92	2188	6.42	-12	0.56	14.7	"
1040	13.44	25%	100	3000	12.90	2187	6.42	-13	0.56	14.5	"
1045	Stable - Sample for TPH-GRO/BTEXN										
Stabilization Criteria (requires 3 readings)					+3%	+3%	+/- 0.1	+MV10	<0.5 mg/L or *	<5 NTUs or **	

\* = if readings are >0.5 mg/L then you need to achieve three readings within +/- 10%  
 \*\* = if readings are >5 NTUs then you need to achieve three readings within +/- 10%

**Additional Notes:**

x no free product measured with interface probe

18 MSC

### Low-Flow Groundwater Sampling Form

Location/Date 2/7/17 - Gunnison Screen Interval Top-      Bot-       
 Well ID MW-41 Purging Device Peristaltic  
 Field Personnel KM Pump Intake (ft. below MP) 14'  
 Measuring Point TOC Total Vol. Purged 3500ml

Time	Depth to Water (ft)	Pump Setting	Purge Rate (mL/min)	Cum. Vol. Purged (mL)	Temperature (F or C)	Specific (uS/cm)	pH	ORP (mv)	DO (mg/L)	Turbidity (NTU)	Comments
0845	12.93	In. trial	DTW								
0850	13.08	25%	100	500	14.26	2111	6.40	-117	0.48	19.3	clear, slight petro color
0855	13.12	25%	100	1000	14.39	2124	6.44	-133	0.40	18.4	"
0900	13.19	25%	100	1500	14.50	2148	6.46	-146	0.36	14.3	"
0905	13.20	25%	100	2000	14.52	2152	6.48	-150	0.35	10.8	"
0910	13.21	25%	100	2500	14.58	2145	6.49	-151	0.33	9.3	"
0915	13.22	25%	100	3000	14.61	2147	6.49	-153	0.33	9.5	"
0920	13.22	25%	100	3500	14.63	2148	6.50	-154	0.33	9.6	"
0925	Stable - Sample for TPH - GRD/BTEKN										
Stabilization Criteria (requires 3 readings)					+3%	+3%	+/- 0.1	+MV10	<0.5 mg/L or *	<5 NTUs or **	

\* = if readings are >0.5 mg/L then you need to achieve three readings within +/- 10%  
 \*\* = if readings are >5 NTUs then you need to achieve three readings within +/- 10%

**Additional Notes:**

\*no free product measured with interface probe



**American West  
Analytical Laboratories**

3440 S. 700 W. Salt Lake City, UT 84119  
Phone # (801) 263-8686 Toll Free # (888) 263-8686  
Fax # (801) 263-8687 Email awal@awal-labs.com

www.awal-labs.com

**CHAIN OF CUSTODY**

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1502162  
AWAL Lab Sample Set #  
Page 1 of 1

Client: Watch Environmental  
Address: 2410 W Callhams Ave  
City, State, Zip: SLC, UT 84104  
Contact: Michael Cronin  
Phone #: 801-972-2400 Cell #: -  
E-mail: michael@watch-environmental.com  
Project Name: C-4 Top Shop  
Project #: 1211-026A  
PO #: 1211-026A  
Sampler Name: Kevin Murchio

QC Level: 1/2 2+ 3 3+  
Turn Around Time: 1 2 3 4 5 Std

Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.

Due Date: 2/21/18

Report down to the MDL  
 Include EDD:  
 Lab Filter for:  
 Field Filtered For:

For Compliance With:  
 NELAP  
 RCRA  
 CWA  
 SDWA  
 ELAP / A2LA  
 NLLAP  
 Non-Compliance  
 Other:

**Laboratory Use Only**

COC Tape Was:  
1 Present on Outer Package  
Y N NA  
2 Unbroken on Outer Package  
Y N  
3 Present on Sample  
Y N  
4 Unbroken on Sample  
Y N

Known Hazards & Sample Comments

Samples Were:  
1 Shipped of hand delivered  
2 Ambient or Chilled  
3 Temperature 2.5 °C  
4 Received Intact  
Y N  
5 Properly Preserved  
Y N Checked at bench  
6 Received Within Holding Times  
Y N

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 MW-41	2/17/18	0845	3	W ✓															
2 MW-43	2/17/18	1045	3	W ✓															
3 MW-27	2/17/18	1350	3	W ✓															
<i>[Handwritten signature]</i>																			
<i>[Handwritten signature]</i>																			
<i>[Handwritten signature]</i>																			

Sample Labels and COC Record Match?  
Y N

Relinquished by: Signature: <u>[Signature]</u>	Date: <u>2/17/18</u>	Received by: Signature: <u>[Signature]</u>	Date: <u>2/17/18</u>
Print Name: <u>Kevin Murchio</u>	Time: <u>1605</u>	Print Name: <u>DOMINIC BOVINI</u>	Time: <u>110105</u>
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

**Appendix D**

**Groundwater Laboratory Analytical Report**





Mike Cronin  
Wasatch Environmental  
2410 West California Avenue  
Salt Lake City, UT 84104  
TEL: (801) 972-8400

RE: C-4 Top Stop / 1241-026A

Dear Mike Cronin:

Lab Set ID: 1802162

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 2/7/2018 for the analyses presented in the following report.

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: [awal@awal-labs.com](mailto:awal@awal-labs.com)  
web: [www.awal-labs.com](http://www.awal-labs.com)

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Thank You,

Approved by: 

Kyle F. Gross	Digitally signed by Kyle F. Gross
	Date: 2018.02.09 14:44:05 -07'00'

  
Laboratory Director or designee



# ORGANIC ANALYTICAL REPORT

**Client:** Wasatch Environmental **Contact:** Mike Cronin  
**Project:** C-4 Top Stop / 1241-026A  
**Lab Sample ID:** 1802162-001A  
**Client Sample ID:** MW-41  
**Collection Date:** 2/7/2018 845h  
**Received Date:** 2/7/2018 1605h **Test Code:** 8260-W-PPM

## Analytical Results VOAs MBTEXN/GRO by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2018 1426h

**Units:** mg/L **Dilution Factor:** 10 **Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Ethylbenzene	100-41-4	0.0200	0.301	~

Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: [awal@awal-labs.com](mailto:awal@awal-labs.com)

Surrogate	Units: mg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	0.505	0.5000	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	0.507	0.5000	101	80-152	
Surr: Dibromofluoromethane		1868-53-7	0.493	0.5000	98.7	70-130	
Surr: Toluene-d8		2037-26-5	0.506	0.5000	101	80-124	

-- The reporting limits were raised due to high analyte concentrations.

web: [www.aval-labs.com](http://www.aval-labs.com)

**Analyzed:** 2/8/2018 1138h

**Units:** mg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.00100	0.195	
Naphthalene	91-20-3	0.00200	0.0244	
Toluene	108-88-3	0.00200	0.0129	
TPH C6-C10 (GRO)		0.0200	1.29	
Xylenes, Total	1330-20-7	0.00200	0.184	

Surrogate	Units: mg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	0.0500	0.05000	100	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	0.0495	0.05000	99.1	80-152	
Surr: Dibromofluoromethane		1868-53-7	0.0485	0.05000	97.0	70-130	
Surr: Toluene-d8		2037-26-5	0.0489	0.05000	97.7	80-124	



## ORGANIC ANALYTICAL REPORT

**Client:** Wasatch Environmental **Contact:** Mike Cronin  
**Project:** C-4 Top Stop / 1241-026A  
**Lab Sample ID:** 1802162-002A  
**Client Sample ID:** MW-43  
**Collection Date:** 2/7/2018 1045h  
**Received Date:** 2/7/2018 1605h **Test Code:** 8260-W-PPM

**Analytical Results** VOAs MBTEXN/GRO by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2018 1118h

**Units:** mg/L **Dilution Factor:** 1 **Method:** SW8260C

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 e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.00100	< 0.00100	
Ethylbenzene	100-41-4	0.00200	< 0.00200	
Naphthalene	91-20-3	0.00200	< 0.00200	
Toluene	108-88-3	0.00200	< 0.00200	
TPH C6-C10 (GRO)		0.0200	< 0.0200	
Xylenes, Total	1330-20-7	0.00200	< 0.00200	

Surrogate	Units: mg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	0.0506	0.05000	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	0.0509	0.05000	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	0.0496	0.05000	99.2	70-130	
Surr: Toluene-d8		2037-26-5	0.0505	0.05000	101	80-124	



## ORGANIC ANALYTICAL REPORT

**Client:** Wasatch Environmental **Contact:** Mike Cronin  
**Project:** C-4 Top Stop / 1241-026A  
**Lab Sample ID:** 1802162-003A  
**Client Sample ID:** MW-27  
**Collection Date:** 2/7/2018 1350h  
**Received Date:** 2/7/2018 1605h **Test Code:** 8260-W-PPM

### Analytical Results VOAs MBTEXN/GRO by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2018 1445h

**Units:** mg/L **Dilution Factor:** 50 **Method:** SW8260C

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Salt Lake City, UT 84119

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web: www.awal-labs.com

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Ethylbenzene	100-41-4	0.100	1.76	~
Naphthalene	91-20-3	0.100	0.268	~
Toluene	108-88-3	0.100	1.50	~
Xylenes, Total	1330-20-7	0.100	5.32	~

Surrogate	Units: mg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2.53	2.500	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2.56	2.500	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	2.49	2.500	99.5	70-130	
Surr: Toluene-d8		2037-26-5	2.52	2.500	101	80-124	

-- The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/8/2018 1157h

**Units:** mg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.00100	0.0822	
TPH C6-C10 (GRO)		0.0200	10.7	

Surrogate	Units: mg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	0.0512	0.05000	103	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	0.0461	0.05000	92.2	80-152	
Surr: Dibromofluoromethane		1868-53-7	0.0455	0.05000	91.1	70-130	
Surr: Toluene-d8		2037-26-5	0.0476	0.05000	95.3	80-124	

# American West Analytical Laboratories

Rpt Emailed:

D

## WORK ORDER Summary

Work Order: **1802162** Page 1 of 1

Client: Wasatch Environmental  
 Client ID: WASS80  
 Project: C-4 Top Stop / 1241-026A  
 Comments: PA Rush;

Contact: Mike Cronin  
 QC Level: I

Due Date: 2/16/2018  
 WO Type: Standard

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1802162-001A	MW-41	2/7/2018 0845h	2/7/2018 1605h	8260-W-PPM	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-MBTEXN/GRO; # of Analytes: 6 / # of Surr: 4</i>							
1802162-002A	MW-43	2/7/2018 1045h	2/7/2018 1605h	8260-W-PPM	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-MBTEXN/GRO; # of Analytes: 6 / # of Surr: 4</i>							
1802162-003A	MW-27	2/7/2018 1350h	2/7/2018 1605h	8260-W-PPM	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-MBTEXN/GRO; # of Analytes: 6 / # of Surr: 4</i>							



**American West  
Analytical Laboratories**

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**CHAIN OF CUSTODY**

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analysis lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1802162

AWAL Lab Sample Set #

Page 1 of 1

Client: Wasatch Environmental  
 Address: 2410 W California Ave  
 City, State, Zip: SLC, UT 84104  
 Contact: Michael Cronin  
 Phone #: 801-972-8400 Cell #: -  
 E-mail: mcl@wasatch-environmental.com  
 Project Name: C-4 Top Stop  
 Project #: 1241-026A  
 PO #: 1241-026A  
 Sampler Name: Kevin Murphy

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:						
<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2+	<input type="checkbox"/> 3	<input type="checkbox"/> 3+	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input checked="" type="checkbox"/> (Std)	2/21/18	
Sample Matrix	82-60C-TPA-60BTEXN	Sample ID:	Date Sampled	Time Sampled	# of Containers	Report down to the MDL	Laboratory Use Only					
		1 MW-41	2/17/17	0845	3	<input type="checkbox"/> Include EDD:	COC Tape Was:					
		2 MW-43	2/17/17	1045	3	<input type="checkbox"/> Lab Filter for:	1 Present on Outer Package					
		3 MW-27	2/17/17	1350	3	<input type="checkbox"/> Field Filtered For:	Y N <input checked="" type="checkbox"/> NA					
		4					2 Unbroken on Outer Package					
		5					Y N <input checked="" type="checkbox"/> NA					
		6					3 Present on Sample					
		7					Y N <input checked="" type="checkbox"/> NA					
		8					4 Unbroken on Sample					
		9					Y N <input checked="" type="checkbox"/> NA					
		10					Samples Were:					
		11					1 Shipped <input checked="" type="checkbox"/> hand delivered					
		12					2 Ambient or Chilled					
		13					3 Temperature 2.5 °C					
		14					4 Received Intact					
15					Y N							
					5 Properly Preserved							
					Y N Checked at bench							
					6 Received Within Holding Times							
					Y N							
					Sample Labels and COC match?							
					Y N <input checked="" type="checkbox"/> 2/21/17							
Relinquished by Signature	Date	Received by Signature	Date	Special Instructions:								
<u>Kevin Murphy</u>	2/17/17	<u>Denise Braun</u>	2/17/17									
Print Name	Time	Print Name	Time									
<u>Kevin Murphy</u>	1605	<u>Denise Braun</u>	16105									
Relinquished by Signature	Date	Received by Signature	Date									
Print Name	Time	Print Name	Time									
Relinquished by Signature	Date	Received by Signature	Date									
Print Name	Time	Print Name	Time									