

**MONITORING WELL INSTALLATION &
SEMI-ANNUAL
GROUND WATER MONITORING REPORT
for
SHAMROCK #63
3624 CERRILLOS ROAD
SANTA FE, NEW MEXICO**

DELIVERABLE ID #16220-1

December 29, 2011

Prepared for:

Polk Oil Company
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Prepared by:

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B A S I N
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December 29, 2011

Ms. Susan Von Gonten, Project Manager
New Mexico Environment Department
Petroleum Storage Tank Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507

RE: Well Installation & Semi-Annual Ground Water Monitoring Report

Shamrock #63

3624 Cerrillos Road

Santa Fe, New Mexico

Facility ID #29206

Work Plan ID #16220

Release ID #4509

Deliverable ID #16220-1

Dear Ms. Von Gonten:

This letter report summarizes the activities and results of the recently completed monitoring well installation and semi-annual ground water monitoring event conducted at the facility referenced above. The Shamrock #63 site is located in Santa Fe, New Mexico as shown in Figure 1, Vicinity Map. Ground water monitoring activities were conducted in accordance with the *Well Installation & Semi-Annual Ground Water Monitoring Work Plan* dated October 25, 2011, which was modified and approved by the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) in a letter dated November 4, 2011.

SUMMARY OF FIELD ACTIVITIES

Well Installation and Development

One (1) new ground water monitoring well (MW-5) was installed at the Shamrock #63 site in accordance with the approved work plan. A copy of the permit for the well,

issued by the New Mexico Office of the State Engineer, is included with this report in Appendix A, Monitoring Well Permit.

Personnel from Basin and Precision Sampling, Inc. (Precision) met for an on-site safety meeting on the morning of December 8, 2011 during which the Site Safety and Health Plan was reviewed by all personnel from Basin and Precision. Shortly after the safety meeting concluded, drilling activities commenced at the location of monitoring well MW-5 using a mobile drilling rig supplied by Precision. Drilling and construction of monitoring well MW-5 was completed on December 8, 2011. Susan von Gonten of the NMED PSTB Santa Fe office was on-site to observe drilling and well installation activities.

The soil boring for monitoring well MW-5 was advanced using a string of hollow-stem augers. The location of the new monitoring well, which was constructed with 2-inch diameter PVC, is shown along with the four (4) existing on-site monitoring wells in Figure 2, Site Map. The soil boring was advanced to a total depth of ninety (90) feet below ground surface (bgs). Soil samples were collected using a 5-foot continuous core barrel sampler and evaluated at five (5) foot intervals in the field using the heated headspace methodology. The drill cuttings generated from the installation of monitoring well MW-5 were thinly spread on the property in a location designated by the owner.

After the soil boring was advanced to its total depth, the boring was completed as a ground water monitoring well. The well casing materials consist of 2-inch diameter PVC (Schedule 40). The well screen is 2-inch diameter PVC (Schedule 40) with 0.010-inch slots and the screened interval is from 75.0 to 90.0 feet bgs. The gravel pack around the well screen extends from 3.5 feet above the top of the screen to the bottom of the soil boring and consists of #10/20 silica sand. A hydrated bentonite pellet well seal having a thickness of 2.5 feet was installed above the gravel pack. The surface completion of monitoring well MW-5 consists of an 8-inch diameter cast iron and steel, traffic-rated, bolt-down protective cover encased in concrete around the top of the PVC well casing.

The depth to water in the new well upon completion was approximately 80 feet bgs. After installation of the well, it was developed by surging and bailing using a disposable high-density polyethylene (HDPE) bailer. Approximately 15.0 gallons of ground water, which emitted a strong hydrocarbon odor, were removed from the well by hand bailing.

The ground water monitoring well installation methods employed at the Shamrock #63 site are included with this report in Appendix B, Standard Operating Procedures. The soil boring log and monitoring well construction schematic drawing for new monitoring well MW-5 are included with this report in Appendix C.

Soil Sample Collection

A total of seventeen (17) soil samples were collected at five-foot intervals from the soil boring advanced for the installation of monitoring well MW-5. All of the soil samples were screened in the field using the heated headspace methodology. Three (3) of the seventeen (17) samples collected were prepared using the methanol extraction method and submitted along with chain-of-custody documentation to TestAmerica, Inc. in Nashville, Tennessee for analysis of volatile organic compounds (VOCs) in accordance with EPA Method 8260B.

The approved work plan called for the three (3) soil samples submitted for laboratory analysis to consist of the sample collected from immediately above the water table and the two (2) samples that yield the highest heated headspace readings. The rationale for soil sample collection was modified in the field by Susan von Gonten, the NMED PSTB Project Manager for the Shamrock #63 site, to include a shallow soil sample. Therefore, in addition to the soil sample collected from immediately above the water table and the sample yielding the highest heated headspace reading, the soil sample collected from 8.5 feet bgs was also submitted for laboratory analysis.

Descriptions of the heated headspace screening and soil sample collection using methanol extraction methods employed at the Shamrock #63 site are included with this report in Appendix B, Standard Operating Procedures.

Monitoring Well Survey

After monitoring well MW-5 was successfully installed, it was surveyed by Arrow Engineering of Gallup, New Mexico with respect to state plane coordinates and mean sea level (NAVD88). A copy of the certified survey document is included with this report in Appendix D.

Ground Water Sampling

Ground water samples were collected from all five (5) on-site monitoring wells (MW-1, MW-2, MW-3, MW-4 and MW-5) by Basin personnel on December 15, 2011 in accordance with the approved work plan. The locations of the monitoring wells are shown in Figure 2, Site Map.

Ground water monitoring activities conducted at the Shamrock #63 site during the current semi-annual monitoring event included the measurement of ground water elevations, the measurement of water quality field parameters and the collection of ground water samples for laboratory analysis. Ground water samples collected for laboratory analysis were submitted with chain-of-custody documentation to TestAmerica, Inc. in Nashville, Tennessee. The samples were analyzed for the presence of volatile organic compounds (VOCs) in accordance with EPA Method 8260B and 1,2-Dibromoethane in accordance with EPA Method 504.1. Ground water sampling methods employed during the current semi-annual monitoring event are included with this report in Appendix B, Standard Operating Procedures.

GROUND WATER MONITORING & SOIL ANALYTICAL RESULTS

Soil Sample Analytical Results

The field screening and laboratory analytical results for all soil samples collected during the monitoring well installation activities at the Shamrock #63 site are summarized in Table 1, Summary of Soil Sampling Analytical Results. The complete results of laboratory analytical testing are included in Appendix E, Laboratory Analytical Reports.

Heated headspace readings recorded from on-site evaluation of the seventeen (17) soil samples collected from the soil boring for monitoring well MW-5 varied from 0.0 to 4,270 parts per million (ppm). Nine (9) of the seventeen (17) soil samples screened in the field using the heated headspace methodology, which consisted of all the samples collected from deeper than 40 feet bgs, exceeded the NMED PSTB action level of 100 ppm.

Laboratory analytical results show that two (2) of the three (3) soil samples submitted for laboratory analysis contained concentrations of contaminants of concern (COCs) that exceed NMED PSTB Tier 1 risk-based screening levels (RBSLs). Total naphthalenes, or PAHs, were the only COC present in soil samples at concentrations exceeding Tier 1 RBSLs. Both samples that contained concentrations of PAHs above the Tier 1 RBSL were collected from the lower depths of the soil boring.

Ground Water Levels

Ground water elevation measurements collected during the current monitoring event are summarized in Table 2, Ground Water Elevation and Field Parameter Data. The measured depths to ground water below the tops of the monitoring well casings varied between 77.97 feet (MW-4) and 80.10 feet (MW-2). Ground water surface elevation contours generated using data collected during the current semi-annual monitoring event are depicted in Figure 3a, Ground Water Contour Map.

Elevation data collected during the current monitoring event indicate that the ground water flow directions and gradients beneath the Shamrock #63 site vary considerably. The flow directions and gradients were calculated to be south-southeast at 0.0096 foot per foot (ft/ft) as measured between monitoring wells MW-2 and MW-1; southwest at 0.0052 ft/ft as measured between monitoring wells MW-3 and MW-1; northwest at 0.0030 ft/ft as measured between monitoring wells MW-4 and MW-1; and east at 0.0083 ft/ft as measured between monitoring wells MW-5 and MW-1.

As has been the case during previous monitoring events conducted at the Shamrock #63 site, the lowest ground water elevation measurement recorded during the current event was in monitoring well MW-1. If the MW-1 ground water elevation data point is eliminated from the consideration of the on-site ground water flow regime and only the data from the other four (4) wells are used to construct elevation contours, the resulting image is quite different than the one shown in Figure 3a, Ground Water Contour Map. Figure 3b, Ground Water Contour Map, depicts the elevation contours constructed without the elevation data from monitoring well MW-1. Figure 3b depicts a relatively uniform ground water flow regime with a southeast direction and a hydraulic gradient of approximately 0.0026 ft/ft.

Ground Water Analytical Results

Ground water quality field parameter measurements collected during the current semi-annual monitoring event are reported in Table 2, Ground Water Elevation and Field Parameter Data. The ground water field parameter measurements collected during the current monitoring event are generally consistent with values recorded during previous monitoring events conducted at this facility.

A summary of the results of laboratory analyses of ground water samples collected from facility monitoring wells during the current monitoring event is given in Table 3, Summary of Ground Water Sampling Analytical Results, and depicted in Figure 4,

Ground Water Analytical Map. The following contaminants of concern (COCs) were detected in concentrations that exceed New Mexico Water Quality Control Commission (WQCC) and Environmental Improvement Board (EIB) standards for ground water in samples collected from facility monitoring wells during the current event:

- Benzene was detected in ground water samples collected from monitoring wells MW-1 (3,900 µg/L), MW-2 (1,340 µg/L), MW-3 (49.9 µg/L) and MW-5 (678 µg/L).
- Toluene was detected in the ground water sample collected from monitoring well MW-5 (2,520 µg/L).
- Ethylbenzene was detected in the ground water sample collected from monitoring well MW-5 (1,560 µg/L).
- Total xylenes were detected in ground water samples collected from monitoring wells MW-1 (2,400 µg/L) and MW-5 (10,700 µg/L).
- Methyl tert-butyl ether (MTBE) was detected in ground water samples collected from monitoring wells MW-1 (2,360 µg/L) and MW-2 (427 µg/L).
- Polynuclear aromatic hydrocarbons (PAHs) were detected in ground water samples collected from monitoring wells MW-1 (257.5 µg/L), MW-2 (37.41 µg/L) and MW-5 (7,170 µg/L).

The following compounds were detected in concentrations equal to or exceeding the laboratory detection limits (but less than WQCC and EIB standards) in ground water samples collected from facility monitoring wells during the current event:

- Toluene was detected in ground water samples collected from monitoring wells MW-1 (262 µg/L), MW-2 (53.1 µg/L) and MW-3 (1.31 µg/L).
- Ethylbenzene was detected in ground water samples collected from monitoring wells MW-1 (147 µg/L) and MW-2 (4.04 µg/L).
- Total xylenes were detected in ground water samples collected from monitoring wells MW-2 (167 µg/L) and MW-3 (6.45 µg/L).
- MTBE was detected in ground water samples collected from monitoring wells MW-3 (60.4 µg/L) and MW-4 (18.6 µg/L).

- 1,2-Dichloroethane (EDC) was detected in the ground water sample collected from monitoring well MW-4 (6.62 µg/L).
- sec-Butylbenzene was detected in ground water samples collected from monitoring wells MW-1 (3.87 µg/L), MW-2 (2.02 µg/L) and MW-5 (5.95 µg/L).
- n-Butylbenzene was detected in ground water samples collected from monitoring wells MW-1 (25.8 µg/L), MW-2 (14.4 µg/L) and MW-5 (55.8 µg/L).
- Isopropylbenzene was detected in ground water samples collected from monitoring wells MW-1 (22.5 µg/L), MW-2 (10.1 µg/L), MW-3 (1.13 µg/L) and MW-5 (27.3 µg/L).
- p-Isopropyltoluene was detected in ground water samples collected from monitoring wells MW-1 (2.71 µg/L), MW-2 (1.64 µg/L) and MW-5 (4.95 µg/L).
- n-Propylbenzene was detected in ground water samples collected from monitoring wells MW-1 (52.9 µg/L), MW-2 (10.1 µg/L) and MW-5 (113 µg/L).
- 1,3,5-Trimethylbenzene was detected in ground water samples collected from monitoring wells MW-1 (169 µg/L), MW-2 (57.9 µg/L) and MW-5 (2,530 µg/L).
- 1,2,4-Trimethylbenzene was detected in ground water samples collected from monitoring wells MW-1 (508 µg/L), MW-2 (98.9 µg/L) and MW-5 (7,080 µg/L).

No other volatile or semi-volatile organic analytes were present at concentrations equal to or exceeding the laboratory detection limits in ground water samples collected from facility monitoring wells during the current semi-annual monitoring event. The complete results of laboratory analyses are included in Appendix E, Laboratory Analytical Reports.

CONCLUSIONS AND RECOMMENDATIONS

The ground water flow directions and hydraulic gradients calculated for the Shamrock #63 site using data collected during the current semi-annual monitoring event are very

similar to the values calculated for previous events conducted at the site. The ground water elevation obtained from new monitoring well MW-5 shows that there is also a relatively steep hydraulic gradient between monitoring wells MW-5 and MW-1. Similar to previous monitoring events, the lowest ground water elevation on the site occurs in monitoring well MW-1. The addition of monitoring well MW-5 defines a bowl shape to the ground water contours with monitoring well MW-1 being located in the bottom of the bowl.

Despite the fact that the lowest ground water elevation occurs in monitoring well MW-1, we believe that ground water does not flow toward MW-1 from all directions. As shown in Figure 3b, plotting ground water elevation contours using measurements from only monitoring wells MW-2, MW-3, MW-4 and MW-5 depicts a flow regime where ground water is flowing toward the southeast at a relatively uniform gradient. We suspect that ground water is following a buried paleo-channel with a centerline that has been intercepted by monitoring well MW-1 and extends toward the southeast between monitoring wells MW-3 and MW-4.

Ground water elevations have decreased an average of 0.49 foot per well since the previous semi-annual monitoring event conducted in June 2011. Ground water elevations plotted versus time are shown graphically in Figure 5, Time Series Graph - Ground Water Elevations.

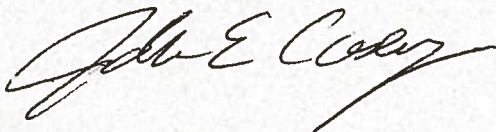
Benzene, toluene, ethylbenzene, total xylenes, MTBE and PAHs were all detected at concentrations exceeding WQCC and EIB ground water standards in samples collected from facility monitoring wells during the current semi-annual monitoring event. The concentrations of most COCs have decreased slightly but not significantly compared to the results of the previous monitoring event. A graph of dissolved benzene concentrations in ground water versus time is included with this report as Figure 6, Time Series Graph – Benzene Concentrations.

The COC plumes in ground water have not been defined to concentrations below WQCC and EIB standards in most directions at the Shamrock #63 site. Plan views of the spatial distribution of COC concentrations are shown in Figures 7, 8 and 9, Concentration Contour Maps for Benzene, MTBE and PAHs, respectively. The shapes of the COC concentration contours indicate that the plumes cover a large portion of the site and probably extend off-site toward the west and southeast. New monitoring well MW-5 appears to be close to the source of dissolved PAHs plume in ground water in the northwestern portion of the site while the benzene and MTBE plumes seem to be associated more with the former USTs and fuel dispenser islands in the northern and central portion of the site.

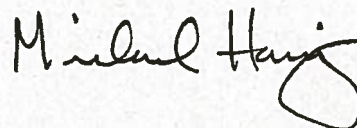
At this time we recommend that ground water monitoring at the former Shamrock #63 site be continued in accordance with the approved work plan and that an additional monitoring well be installed in the southeastern portion of the site in order to define the lateral extent of the benzene, MTBE and PAHs plumes. The ground water monitoring event described in this report was the first of two (2) semi-annual events to be conducted at the site under the current work plan. The next semi-annual monitoring event is scheduled to be conducted in June 2012.

If you have any questions or comments regarding this semi-annual ground water monitoring report or the Shamrock #63 site, do not hesitate to contact our office at your earliest convenience at (970) 259-2078.

Sincerely,
Basin Engineering, Inc.



John E. Casey, P. E.



Michael Hannigan, P.E.

Attachments:

Table 1	Ground Water Elevation and Field Parameter Data
Table 2	Summary of Ground Water Sampling Analytical Results
Figure 1	Vicinity Map
Figure 2	Site Map
Figure 3	Ground Water Contour Map
Figure 4	Ground Water Analytical Map
Figure 5	Time Series Graph – Ground Water Elevations
Figure 6	Time Series Graph – Benzene Concentrations
Figure 7	Benzene Concentration Contour Map
Figure 8	MTBE Concentration Contour Map
Figure 9	PAHs Concentration Contour Map
Appendix A	Monitoring Well Permit
Appendix B	Standard Operating Procedures
Appendix C	Soil Boring Logs/Monitoring Well Schematic Drawings
Appendix D	Monitoring Well Survey
Appendix E	Laboratory Analytical Reports
Appendix F	Statement of Familiarity

cc: Jim Polk, Polk Oil Company
Mack With, Jurgens & With, P.A.

TABLES

Table 1
Summary of Soil Sampling Analytical Results

Sample ID	Sample Date	Sample Depth (feet)	Head-space Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE ⁽¹⁾ (mg/kg)	Total Naphthalenes (mg/kg)
NMED TIER 1 RBSLs⁽²⁾			No RBSL	0.02	2.09	17.23	2.91	0.04	0.68
MW-5 @ 3-4'	8-Dec-11	3.5	0.0	NS	NS	NS	NS	NS	NS
MW-5 @ 8-9'	8-Dec-11	8.5	0.0	<0.144	0.151	<0.144	<0.360	<0.144	<1.08
MW-5 @ 13-14'	8-Dec-11	13.5	0.0	NS	NS	NS	NS	NS	NS
MW-5 @ 18-19'	8-Dec-11	18.5	0.0	NS	NS	NS	NS	NS	NS
MW-5 @ 23-24'	8-Dec-11	23.5	0.0	NS	NS	NS	NS	NS	NS
MW-5 @ 28-29'	8-Dec-11	28.5	0.0	NS	NS	NS	NS	NS	NS
MW-5 @ 33-34'	8-Dec-11	33.5	0.0	NS	NS	NS	NS	NS	NS
MW-5 @ 38-39'	8-Dec-11	38.5	0.0	NS	NS	NS	NS	NS	NS
MW-5 @ 43-44'	8-Dec-11	43.5	2,480	NS	NS	NS	NS	NS	NS
MW-5 @ 48-49'	8-Dec-11	48.5	3,890	NS	NS	NS	NS	NS	NS
MW-5 @ 53-54'	8-Dec-11	53.5	3,670	NS	NS	NS	NS	NS	NS
MW-5 @ 58-59'	8-Dec-11	58.5	4,120	NS	NS	NS	NS	NS	NS
MW-5 @ 64-65'	8-Dec-11	64.5	4,270	<0.123	0.141	0.173	1.39	<0.123	19.87
MW-5 @ 68-69'	8-Dec-11	68.5	4,250	NS	NS	NS	NS	NS	NS
MW-5 @ 73-74'	8-Dec-11	73.5	3,975	<0.127	<0.127	<0.127	<0.316	<0.127	6.85
MW-5 @ 78-79'	8-Dec-11	78.5	3,610	NS	NS	NS	NS	NS	NS
MW-5 @ 83-84'	8-Dec-11	83.5	1,124	NS	NS	NS	NS	NS	NS

Notes:

(1) Methyl tert-butyl ether
(2) Risk-Based Screening Levels
mg/kg = milligrams per Kilogram
ppm = parts per million

< = Not detected at concentrations equal to or above (laboratory detection limit)
NS = No Sample Collected for laboratory analysis
Sample depth given with respect to ground surface
Values in **Bold** exceed NMED Tier 1 RBSLs or Action Levels or Screening Level

Table 2
Ground Water Depth and Field Parameter Data

Well ID	Date Measured	Total Depth (feet)	Depth to Water (feet)	TOC ⁽¹⁾ Elevation (feet)	Ground Water Elevation (feet)	pH	Specific Conductance (mS/cm)	Total Dissolved Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (°F)
MW-1	16-Nov-07	94.72	79.76	6619.21	6539.45	7.47	1.402	911	1.43	60.8
	2-Jan-08	94.72	80.02	6619.21	6539.19	7.88	1.776	1,154	1.28	57.2
	16-May-08	94.72	80.08	6619.21	6539.13	7.16	1.993	1,296	1.74	60.4
	7-Aug-08	94.72	79.77	6619.21	6539.44	7.08	1.840	1,196	0.81	65.4
	22-Oct-08	94.72	79.67	6619.21	6539.54	7.17	1.883	1,224	1.27	59.3
	13-Jan-09	94.72	79.41	6620.47	6541.06	7.16	1.961	1,275	1.91	58.9
	22-Dec-10	94.72	78.17	6620.47	6542.30	7.81	1.567	1,018	2.28	59.9
	28-Jun-11	94.72	78.71	6620.47	6541.76	7.85	3.463	2,251	0.92	62.2
	15-Dec-11	94.72	79.19	6620.47	6541.28	7.25	1.451	943	1.17	56.0
MW-2	16-May-08	94.00	80.89	6621.53	6540.64	7.50	0.838	545	1.17	59.4
	7-Aug-08	94.00	80.62	6621.53	6540.91	7.15	0.735	476	0.77	66.2
	22-Oct-08	94.00	80.53	6621.53	6541.00	7.20	0.670	436	1.38	60.8
	13-Jan-09	94.00	80.31	6622.11	6541.80	7.38	0.643	417	2.09	53.7
	22-Dec-10	94.00	79.13	6622.11	6542.98	7.92	0.781	507	2.21	59.4
	28-Jun-11	94.00	79.63	6622.11	6542.48	7.94	1.814	1,179	0.89	62.3
	15-Dec-11	94.00	80.10	6622.11	6542.01	7.26	0.741	482	1.25	55.6

Table 2
Ground Water Depth and Field Parameter Data

Well ID	Date Measured	Total Depth (feet)	Depth to Water (feet)	TOC ⁽¹⁾ Elevation (feet)	Ground Water Elevation (feet)	pH	Specific Conductance (mS/cm)	Total Dissolved Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (°F)
MW-3	16-May-08	90.00	80.24	6620.37	6540.13	7.84	0.741	483	1.62	58.5
	7-Aug-08	90.00	79.94	6620.37	6540.43	7.56	0.439	286	0.60	64.8
	22-Oct-08	90.00	79.83	6620.37	6540.54	7.46	0.590	384	1.11	61.3
	13-Jan-09	90.00	79.60	6620.94	6541.34	7.55	0.501	328	1.78	58.7
	22-Dec-10	90.00	78.36	6620.94	6542.58	8.02	0.745	485	2.40	58.5
	28-Jun-11	90.00	78.88	6620.94	6542.06	7.81	1.720	1,118	0.71	61.9
	15-Dec-11	90.00	79.35	6620.94	6541.59	7.36	0.714	465	0.75	56.0
MW-4	16-May-08	90.00	78.80	6618.94	6540.14	8.37	1.456	945	1.60	58.1
	7-Aug-08	90.00	78.51	6618.94	6540.43	7.36	1.534	997	1.23	64.3
	22-Oct-08	90.00	78.34	6618.94	6540.60	7.25	1.583	1,029	1.65	61.8
	13-Jan-09	90.00	78.16	6619.53	6541.37	7.26	1.520	988	1.90	58.3
	22-Dec-10	90.00	76.92	6619.53	6542.61	7.96	1.541	1,002	1.91	58.9
	28-Jun-11	90.00	77.43	6619.53	6542.10	7.68	3.415	2,220	1.34	62.5
	15-Dec-11	90.00	77.97	6619.53	6541.56	7.57	1.485	965	1.22	55.9
MW-5	15-Dec-11	90.00	79.15	6620.95	6541.80	7.58	0.560	364	1.00	57.8

Notes: (1) Top of PVC Well Casing
mS/cm = millisiemens per centimeter
mg/L = milligrams per Liter

Table 3
Summary of Ground Water Sampling Analytical Results

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE ⁽²⁾ (µg/L)	EDC ⁽³⁾ (µg/L)	EDB ⁽⁴⁾ (µg/L)	PAHs ⁽⁵⁾ (µg/L)
WQCC/EIB ⁽¹⁾ Standard		10	750	750	620	100	10	0.1	30
MW-1	16-Nov-07	1,700	260	85	1,000	1,100	41	<10	131
	2-Jan-08	6,500	640	150	2,800	4,200	110	23	222
	16-May-08	6,000	660	200	3,200	4,400	160	28	285
	7-Aug-08	5,500	830	180	3,600	3,600	210	48	280
	22-Oct-08	7,200	820	230	3,700	4,700	150	29	410
	13-Jan-09	6,700	890	220	3,400	5,400	120	22	360
	22-Dec-10	4,790	380	232	3,600	2,880	<1.00	13.9	362.8
	28-Jun-11	4,790	330	177	3,340	2,610	<1.00	12.2	353
	15-Dec-11	3,900	262	147	2,400	2,360	<1.00	<0.02	257.5
MW-2	16-May-08	1,300	430	180	1,200	100	20	<10	32
	7-Aug-08	2,000	180	140	1,100	130	22	<5.0	16.7
	22-Oct-08	1,700	140	140	940	130	21	<5.0	20.0
	13-Jan-09	1,700	130	91	810	160	22	<5.0	10
	22-Dec-10	1,720	74.3	5.99	240	426	<1.00	<1.00	94.5
	28-Jun-11	1,920	84.1	4.68	280	426	<1.00	<1.00	68.1
	15-Dec-11	1,340	53.1	4.04	167	427	<1.00	<0.02	37.4

Table 3
Summary of Ground Water Sampling Analytical Results

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE ⁽²⁾ (µg/L)	EDC ⁽³⁾ (µg/L)	EDB ⁽⁴⁾ (µg/L)	PAHs ⁽⁵⁾ (µg/L)
WQCC/EIB ⁽¹⁾ Standard		10	750	750	620	100	10	0.1	30
MW-3	16-May-08	320	7.4	ND	23	4.7	ND	<1.0	6.6
	7-Aug-08	340	12	ND	24	8.5	1.0	<1.0	ND
	22-Oct-08	300	14	ND	28	12	1.1	<1.0	ND
	13-Jan-09	290	8.1	ND	23	18	1.2	<1.0	ND
	22-Dec-10	56.1	2.12	<1.00	9.35	60.5	<1.00	<1.00	<25.0
	28-Jun-11	33.5	1.04	<1.00	5.71	64.2	<1.00	<1.00	<25.0
	15-Dec-11	49.9	1.31	<1.00	6.45	60.4	<1.00	<0.02	<25.0
MW-4	16-May-08	360	1.2	ND	28	5.7	11	<1.0	39.4
	7-Aug-08	350	1.9	ND	42	6.2	17	<1.0	9.4
	22-Oct-08	330	2.7	ND	52	6.5	19	<1.0	9.9
	13-Jan-09	310	1.3	ND	37	7.5	20	<1.0	ND
	22-Dec-10	10.2	<1.00	<1.00	<3.00	5.31	13.2	<1.00	<25.0
	28-Jun-11	1.12	<1.00	<1.00	<3.00	3.90	7.15	<1.00	<25.0
	15-Dec-11	<1.00	<1.00	<1.00	<3.00	18.60	6.62	<0.02	<25.0
MW-5	15-Dec-11	678	2,520	1,560	10,700	<1.00	<1.00	<0.02	7,170

Notes:

(1) New Mexico Water Quality Control Commission/Environmental Improvement Board

(2) Methyl tert-butyl ether

(3) 1,2-Dichloroethane

(4) 1,2 Dibromoethane

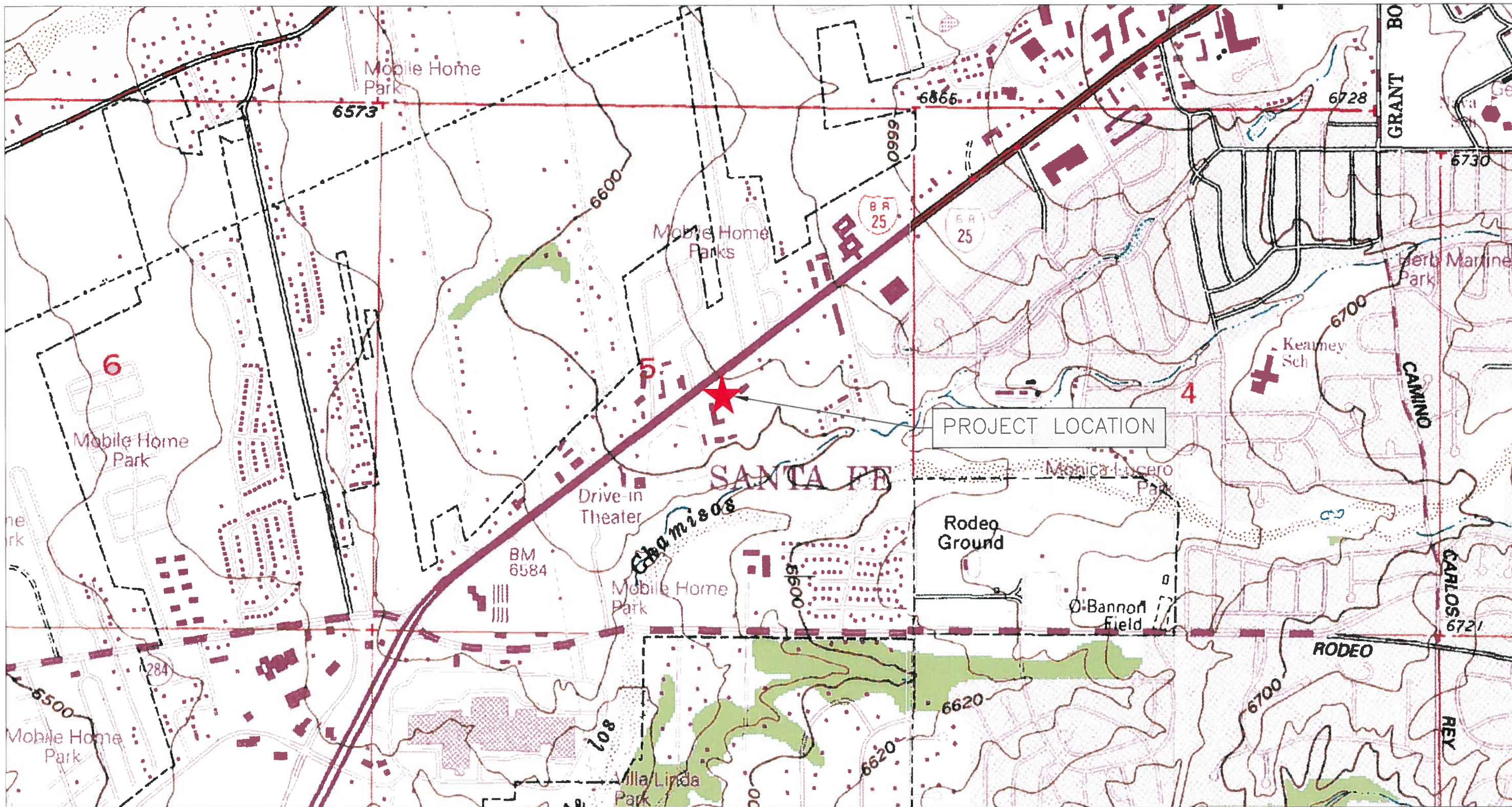
(5) Polynuclear Aromatic Hydrocarbons = naphthalene plus monomethylnaphthalenes

µg/L = micrograms per Liter

ND = Not detected at or above laboratory detection limits

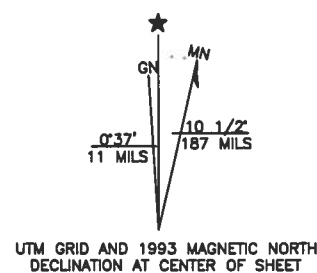
Concentrations in **bold** exceed WQCC/EIB Standards

FIGURES



AGUA FRIA QUADRANGLE
NEW MEXICO—SANTA FE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

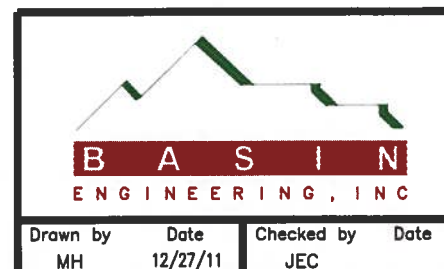
AGUA FRIA, N.MEX.
1951
REVISED 1993



SCALE: 1 inch = 1,000 feet

1,000 500 0 1,000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



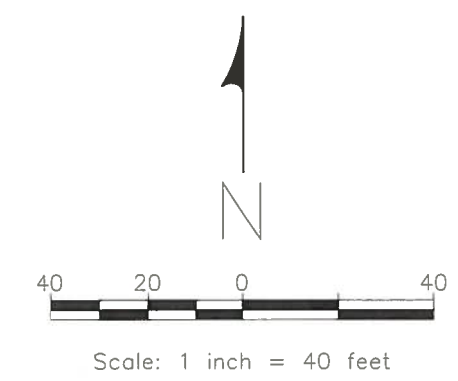
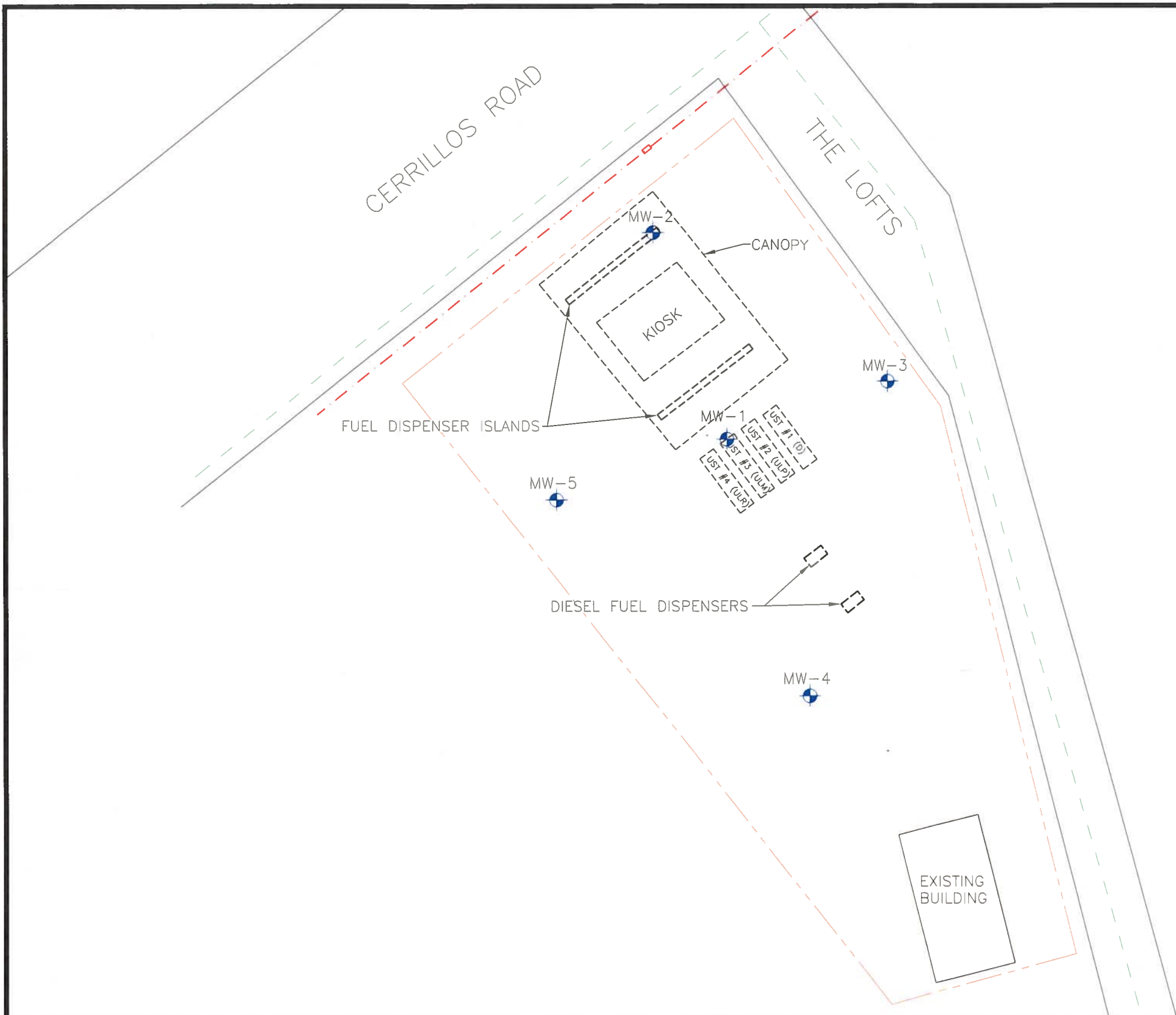
Vicinity Map

Well Installation &
Ground Water Monitoring Report

Polk Oil Company
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico

Project No.
030116

Figure No.
1



LEGEND	
	MW-1 Monitoring Well Location and Designation
	Property Line
	Sanitary Sewer
	Buried Electric/Telecom
UST	Underground Storage Tank
ULR	Regular Unleaded Gasoline
ULM	Mid-Grade Unleaded Gasoline
ULP	Premium Unleaded Gasoline
D	Diesel Fuel

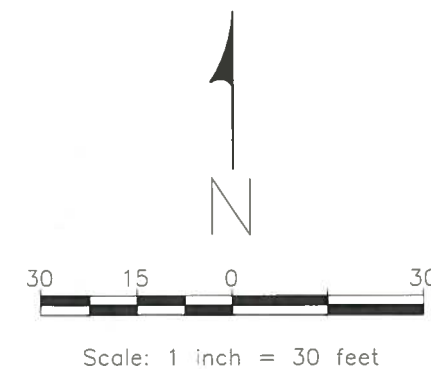
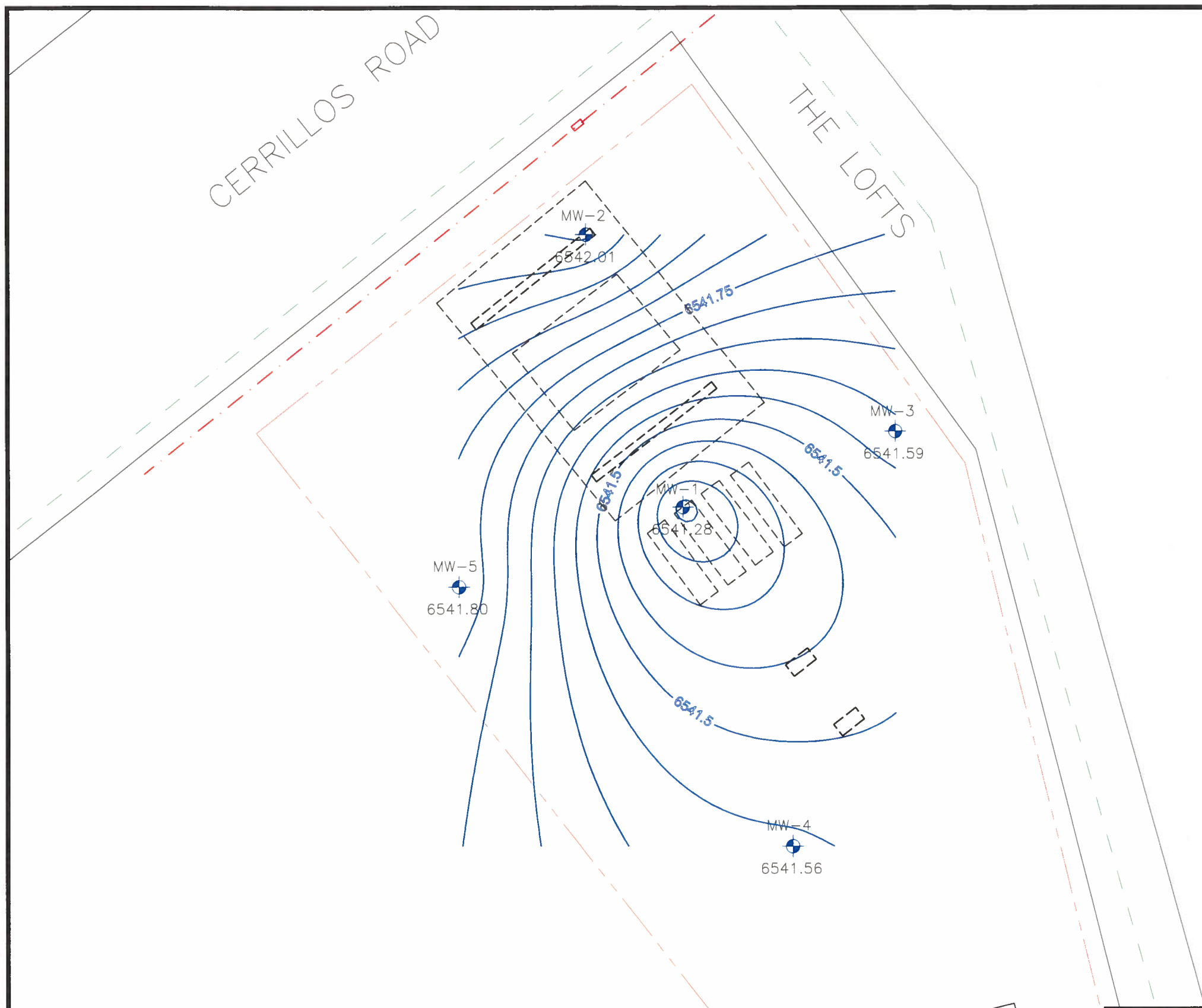
Drawn by	Date	Checked by	Date
MH	12/27/11	JEC	

Site Map

Well Installation & Ground Water Monitoring Report

Polk Oil Company
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico

Project No.	030116
Figure No.	2



LEGEND	
	MW-1 6537.74 Monitoring Well Location, Designation & Ground Water Elevation
	Property Line
	Sanitary Sewer
	Buried Electric/Telecom
	6542.55 Ground Water Elevation Contour (0.05-foot Countour Interval)
Date of Measurement: December 15, 2011	

B A S I N
ENGINEERING, INC

Drawn by	Date	Checked by	Date
MH	12/27/11	JEC	

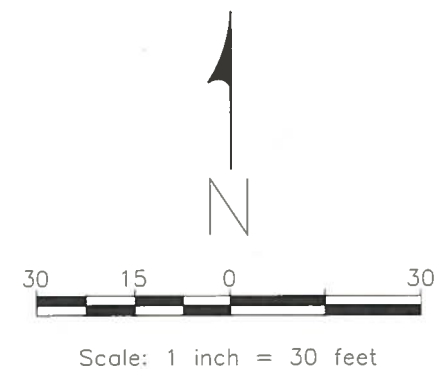
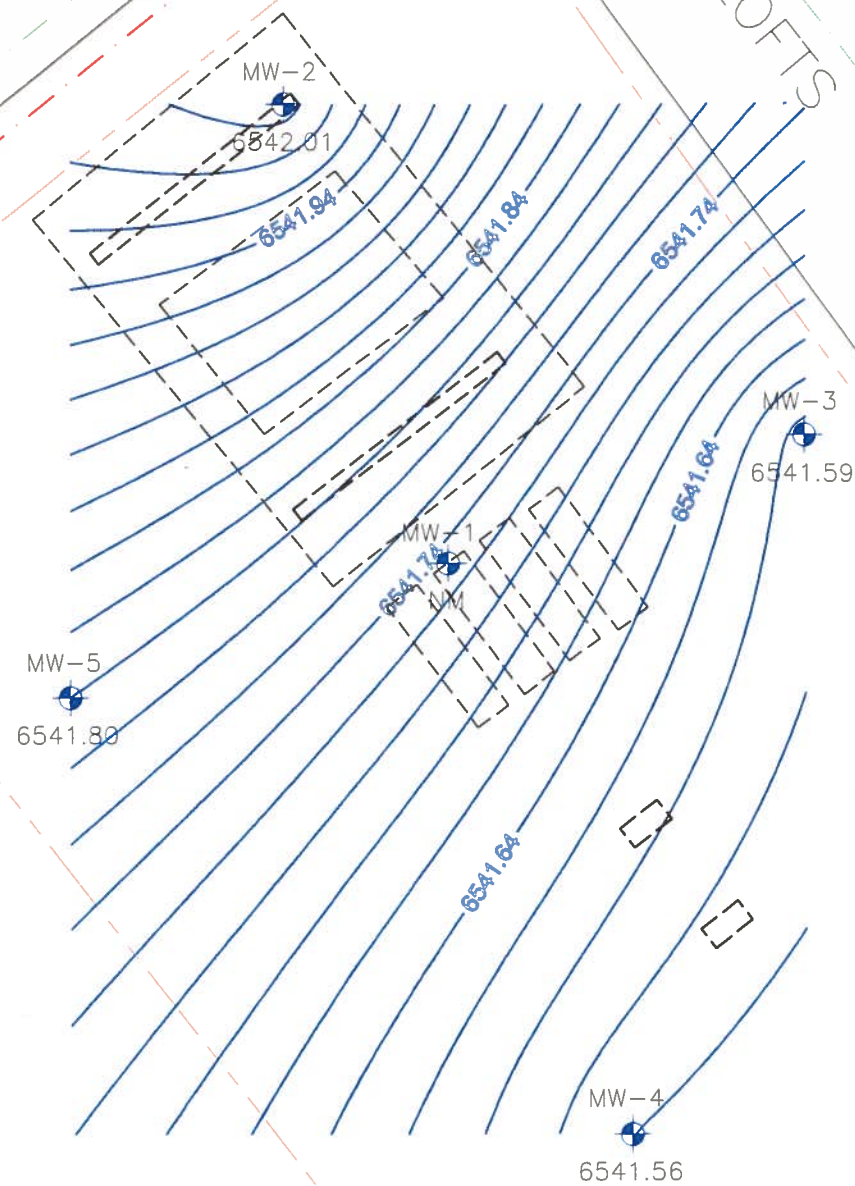
Ground Water Contour Map
Well Installation &
Ground Water Monitoring Report

Polk Oil Company
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico

Project No.
030116
Figure No.
3a

CERRILLOS ROAD

THE LOFTS



LEGEND

MW-1
6537.74

Monitoring Well Location, Designation
& Ground Water Elevation

Property Line

Sanitary Sewer

Buried Electric/Telecom

6542.55

Ground Water Elevation Contour
(0.05-foot Countour Interval)

NM

Not Measured

Date of Measurement: December 15, 2011



Drawn by	Date	Checked by	Date
MH	12/27/11	JEC	

Ground Water Contour Map
Well Installation &
Ground Water Monitoring Report

Polk Oil Company
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico

Project No.
030116

Figure No.
3b

CERRILLOS ROAD

THE LOFTS

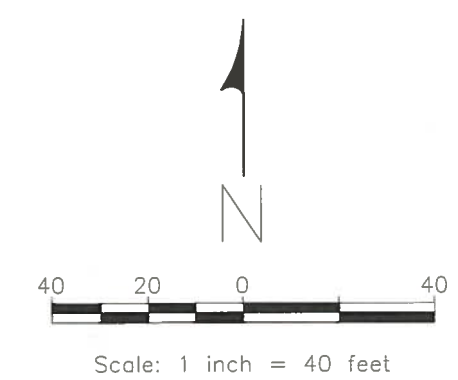
MW-2	
B	= 1,340 µg/L
T	= 53.1 µg/L
E	= 4.04 µg/L
X	= 167 µg/L
MTBE	= 427 µg/L
EDB	= <0.02 µg/L
EDC	= <1.00 µg/L
PAHs	= 37.41 µg/L

MW-1	
B	= 3,900 µg/L
T	= 262 µg/L
E	= 147 µg/L
X	= 2,400 µg/L
MTBE	= 2,360 µg/L
EDB	= <0.02 µg/L
EDC	= <1.00 µg/L
PAHs	= 257.5 µg/L

MW-5	
B	= 678 µg/L
T	= 2,520 µg/L
E	= 1,560 µg/L
X	= 10,700 µg/L
MTBE	= <1.00 µg/L
EDB	= <0.02 µg/L
EDC	= <1.00 µg/L
PAHs	= 7,170 µg/L

MW-4	
B	= <1.00 µg/L
T	= <1.00 µg/L
E	= <1.00 µg/L
X	= <3.00 µg/L
MTBE	= 18.6 µg/L
EDB	= <0.02 µg/L
EDC	= 6.62 µg/L
PAHs	= <25.0 µg/L

MW-3	
B	= 49.9 µg/L
T	= 1.31 µg/L
E	= <1.00 µg/L
X	= 6.45 µg/L
MTBE	= 60.4 µg/L
EDB	= <0.02 µg/L
EDC	= <1.00 µg/L
PAHs	= <25.0 µg/L



LEGEND

- MW-1 Monitoring Well Location and Designation
- Property Line
- Sanitary Sewer
- Buried Electric/Telecom
- B Benzene
- T Toluene
- E Ethylbenzene
- X Total Xylenes
- MTBE Methyl Tert-Butyl Ether
- EDB 1,2-Dibromoethane
- EDC 1,2-Dichloroethane
- PAHs Polynuclear Aromatic Hydrocarbons
- µg/L Micrograms per Liter
- Direction of Ground Water Flow

Sample Collection Date: December 15, 2011

EXISTING BUILDING



Drawn by	Date	Checked by	Date
MH	12/29/11	JEC	

Ground Water Analytical Map

Ground Water Monitoring Report

Polk Oil Company
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico

Project No.
030116

Figure No.
4

Figure 5
Time Series Graph - Ground Water Elevations

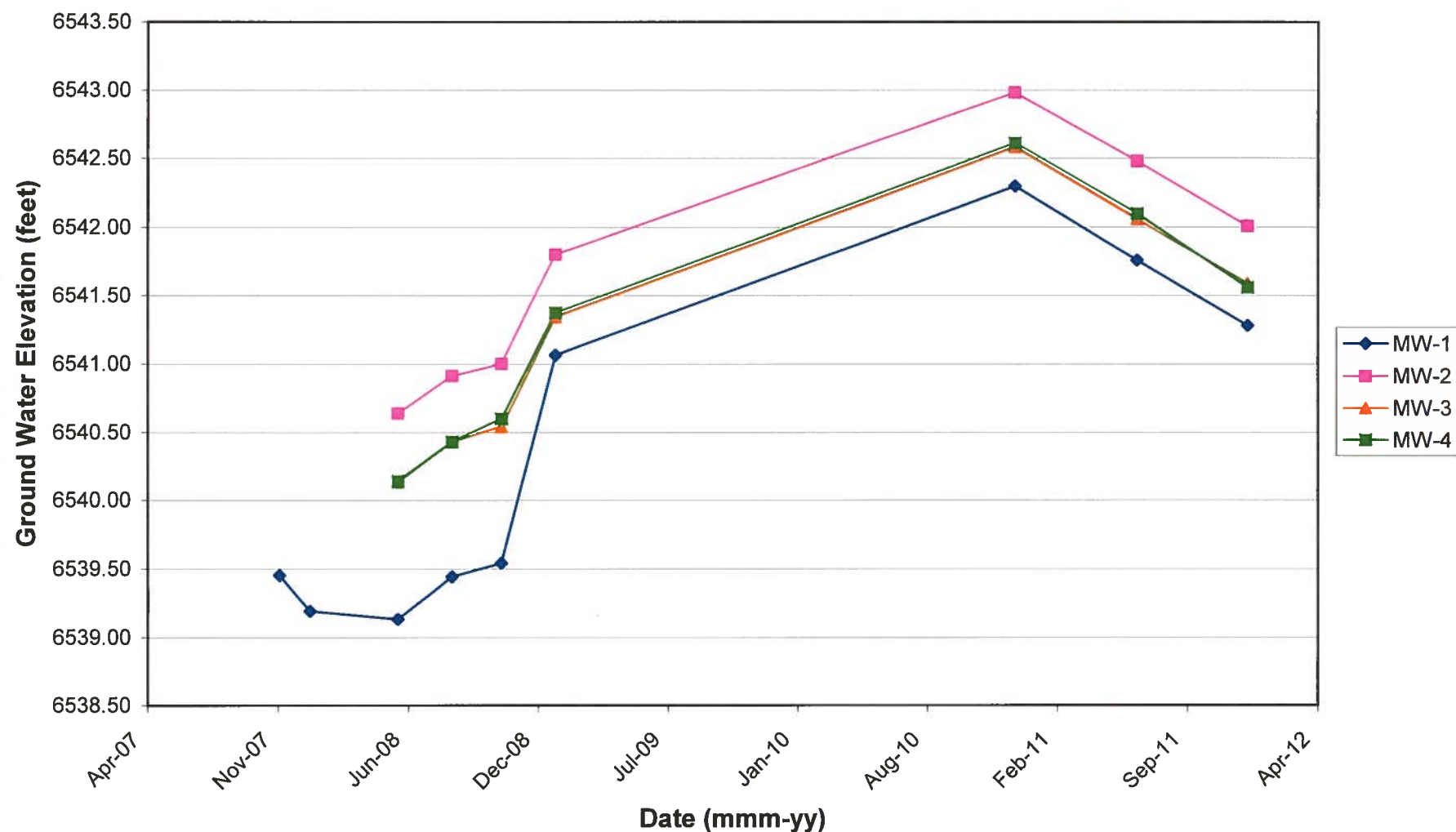
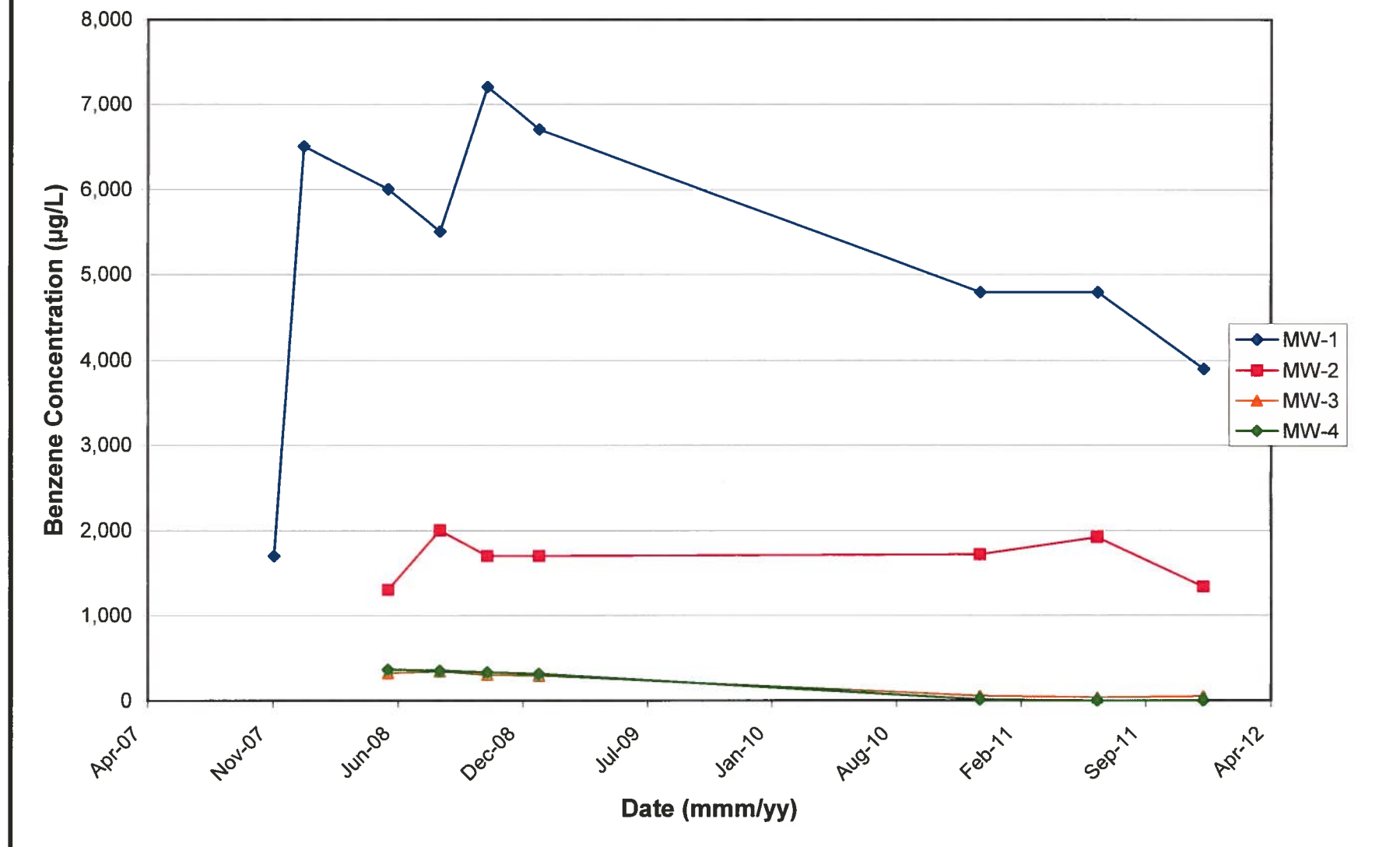
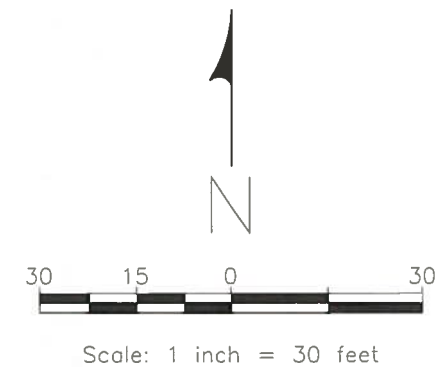
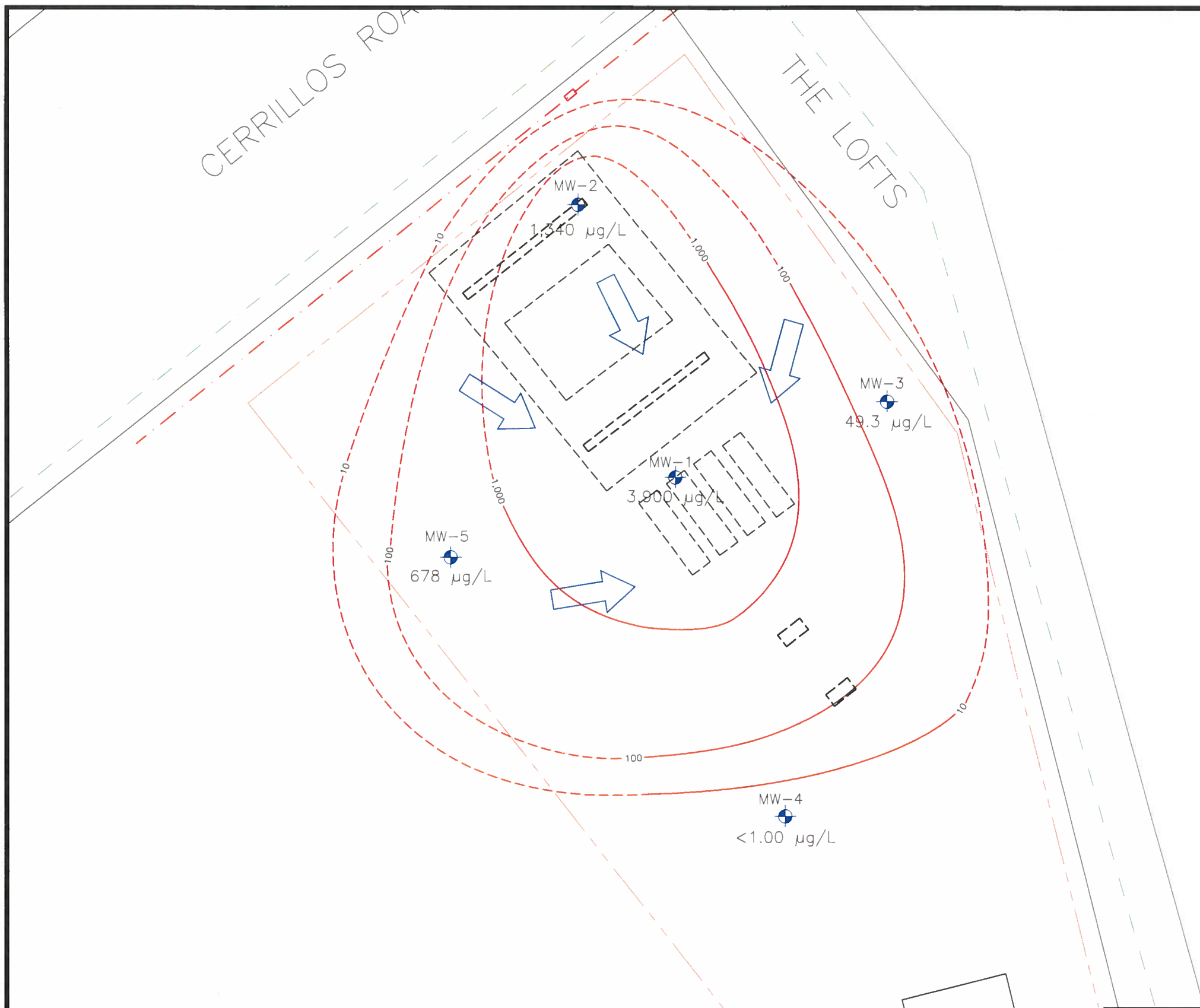
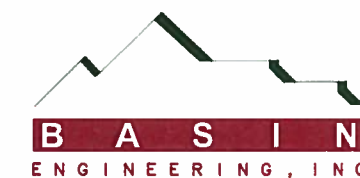


Figure 6
Time Series Graph - Benzene Concentrations





LEGEND	
	Monitoring Well Location, Designation & Benzene Concentration
	Property Line
	Sanitary Sewer
	Buried Electric/Telecom
	Micrograms per Liter
	Benzene Concentration Contour (µg/L, Dashed Where Inferred)
	Direction of Ground Water Flow
Sample Collection Date: December 15, 2011	



Drawn by	Date	Checked by	Date
MH	12/29/11	JEC	

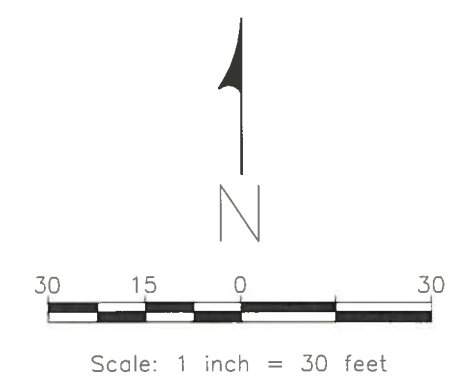
Benzene Concentration
Contour Map
Ground Water Monitoring Report
Polk Oil Company
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico

Project No.
030116

Figure No.
7

CERRILLOS ROAD

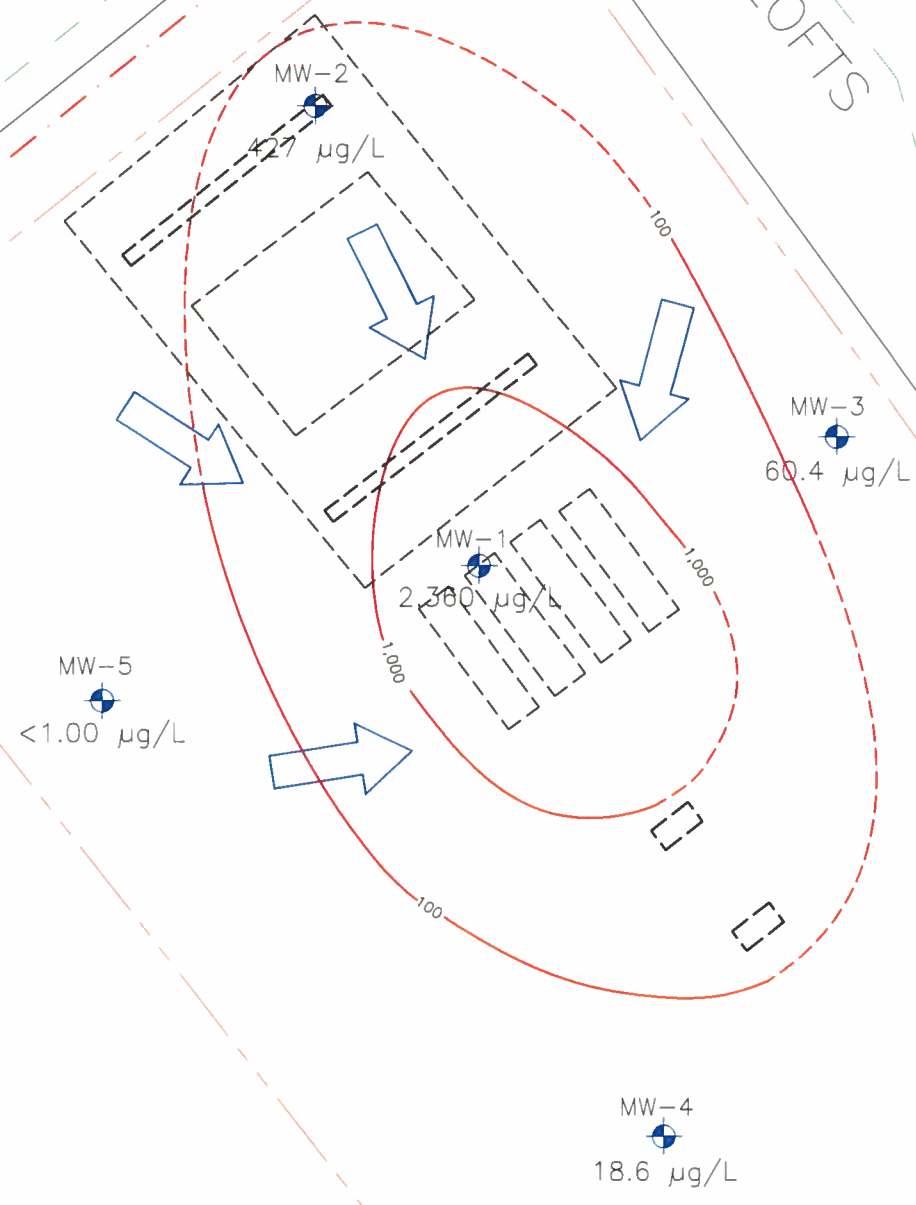
THE LOFTS



LEGEND

- MW-3
60.5 µg/L
Monitoring Well Location, Designation & MTBE Concentration
- Property Line
- Sanitary Sewer
- Buried Electric/Telecom
- MTBE
µg/L
Methyl Tert-Butyl Ether
Micrograms per Liter
- 100
MTBE Concentration Contour
(µg/L, Dashed Where Inferred)
- Direction of Ground Water Flow

Sample Collection Date: December 15, 2011



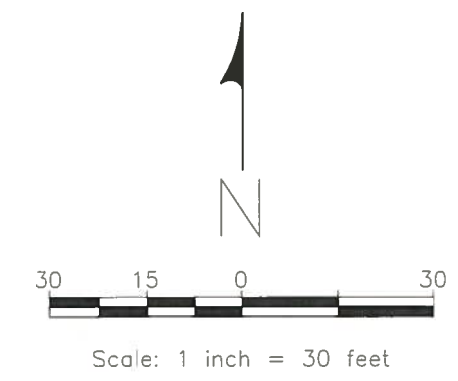
MTBE Concentration
Contour Map
Ground Water Monitoring Report
Polk Oil Company
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico

Project No.
030116
Figure No.
8

Drawn by	Date	Checked by	Date
MH	12/29/11	JEC	

CERRILLOS ROAD

THE LOFTS



LEGEND

-  MW-2
94.5 µg/L
Monitoring Well Location, Designation
& PAHs Concentration
-  Property Line
-  Sanitary Sewer
-  Buried Electric/Telecom
- PAHs
µg/L
Polynuclear Aromatic Hydrocarbons
Micrograms per Liter
-  30
PAHs Concentration Contour
(µg/L, Dashed Where Inferred)
- 
Direction of Ground Water Flow

Sample Collection Date: December 15, 2011



Drawn by	Date	Checked by	Date
MH	12/29/11	JEC	

PAHs Concentration
Contour Map
Ground Water Monitoring Report
Polk Oil Company
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico

Project No.
030116
Figure No.
9

APPENDIX A
Monitoring Well Permit

Estevan R. Lopez, P.E.
Acting State Engineer



Santa Fe Office
PO BOX 25102
SANTA FE, NM 87504-5102

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 490877
File Nbr: RG 93132

Dec. 07, 2011

JOHN E. CASEY
BASIN ENGINEERING, NET
P.O. BOX 3909
DURANGO, CO 81302

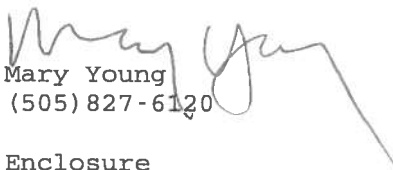
Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, and the well is to be plugged on or before 12/07/2012, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 12/07/2012.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us or will be mailed upon request.

Sincerely,


Mary Young
(505) 827-6120

Enclosure

explore



NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER



(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose: ☐ Pollution Control And / Or Recovery ☐ Geo-Thermal
☐ Exploratory ☐ Construction Site De-Watering ☐ Other (Describe):
☒ Monitoring ☐ Mineral De-Watering

A separate permit will be required to apply water to beneficial use.

☒ Temporary Request - Requested Start Date: **11/30/2011**Requested End Date: **12/15/2011**Plugging Plan of Operations Submitted? ☐ Yes ☒ No

1. APPLICANT(S)

Name: Basin Engineering, Net	Name:
Contact or Agent: John E. Casey check here if Agent ☒	Contact or Agent: check here if Agent ☐
Mailing Address: PO Box 3909	Mailing Address:
City: Durango	City:
State: CO Zip Code: 81302	State: Zip Code:
Phone: 970-7692196 ☐ Home ☒ Cell Phone (Work): 970-259-2078	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): jec@basinengineering.net	E-mail (optional):

FOR OSE INTERNAL USE

Application for Permit, Form wr-07, Rev 8/25/11

File Number: 19-93132	Trn Number: 490877
Trans Description (optional):	
Sub-Basin: NRG	
PCW/LOG Due Date:	

2011 DEC -1 PM 2:28

OFFICE OF STATE ENGINEER
SANTA FE, NM 87500

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), <u>or</u> Latitude/Longitude (Lat/Long - WGS84)			
☒ NM State Plane (NAD83) (Feet) ☐ NM West Zone ☐ NM East Zone ☒ NM Central Zone		☐ UTM (NAD83) (Meters) ☐ Zone 12N ☐ Zone 13N	
		☐ Lat/Long (WGS84) (to the nearest 1/10 th of second)	
Well Number (if known):	X or Easting or Latitude:	Y or Northing or Longitude:	Optional: Complete boxes labeled "Other" below with PLSS (Public Land Survey System, i.e. Quarters, Section, Township, Range); Hydrographic Survey Map & Tract; Lot, Block & Subdivision; OR Land Grant Name if known.
MW-5	1712540.8994	1690242.9095	PLSS
NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 - POD Descriptions)			
Additional well descriptions are attached: ☐ Yes ☐ No If yes, how many _____			
Other description relating well to common landmarks, streets, or other:			
Well is on land owned by: Polk Oil Company			
Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ☒ No If yes, how many _____			
Approximate depth of well (feet): 90.00		Outside diameter of well casing (inches): 2.10	
Driller Name: Presision Sampling		Driller License Number: WD 1402	

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Site Map Attached
The monitoring well is being installed at the request of NMED-PSTB to further define the ground water plume at this old gas station location. Estimated monitoring duration 5 years.

FOR OSE INTERNAL USE

Application for Permit, Form wr-07

File Number:

19-93132

Trn Number:

490877

Exploratory: ☐ Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge. ☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Construction De-Watering: ☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	Mine De-Watering: ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ☒ Include the reason for the monitoring well, and, ☒ The duration of the planned monitoring.		Geo-Thermal: ☐ Include a description of the geothermal heat exchange project, ☐ The amount of water to be diverted and re-injected for the project, ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

I, We (name of applicant(s)), John E. Casey
Print Name(s)

Applicant Signature

Applicant Signature _____

☒ approved ☐ partially approved ☐ denied

Witness my hand and seal this 7th day of December 2011, for the State Engineer,

ESTEVAN R. LOPEZ, P.E., Acting, State Engineer

By: Mary Young Signature MARY YOUNG Print

Title: WATER RELIGIOUS DIVISION
Print

File Number: VN-93132

Trn Number: 490 877

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL

- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- C1 A complete and properly executed Well Record on the form provided by the State Engineer shall be filed not later than twenty (20) days after completion of the well.
Test data shall be filed not later than twenty (20) days after completion of the test(s).
- G If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.
- LOG The Point of Diversion RG 93132 POD 1 must be completed and the Well Log filed on or before 12/07/2012.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 12/01/2011	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 07 day of Dec A.D., 2011

Estevan R. Lopez, P.E., Acting State Engineer

By: Mary Young
Mary Young

Trn Desc: RG 93132

File Number: RG 93132
Trn Number: 490877

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION - SANTA FE OFFICE

OFFICIAL RECEIPT NUMBER: 6-34614 DATE: Dec. 2, 2011 FILE NO.: Pending

TOTAL: 5.00 RECEIVED: PUR DOLLARS CHECK NO.: 1756 CASH:

PAYOR: Basin Engineering ADDRESS: 200 Parker Ave CITY: Durango STATE: CO

ZIP: 81303 RECEIVED BY: [Signature]

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; **yellow** copy remains in district office, and **goldenrod** copy to accompany application being filed. If you make an error, void original and all copies and submit to Program Support/ASD along with valid receipts.

A. Ground Water Rights Filing Fees

1. Declaration of Water Right \$ 1.00
2. Application to Appropriate or Supplement Domestic 72-12-1 Well \$125.00
3. Application for Stock Well \$ 5.00
4. Application to Repair or Deepen 72-12-1 Well \$ 75.00
5. Application to Replacement 72-12-1-1 Well \$ 75.00
6. Application to Change Purpose of Use 72-12-1 Well \$ 75.00
7. Application to Appropriate Irrig., Mun., or Comm. Use \$ 25.00
8. Application for Supplemental Non 72-12-1 Well \$ 25.00
9. Application to Change Point of Diversion of Non 72-12-1 Well \$ 25.00
10. Application to Change Place or Purpose of Use Non 72-12-1 Well \$ 25.00
11. Application to Change Point of Diversion and Place and/or Purpose of Use \$ 50.00
12. Application for Extension of Time \$ 25.00
13. Proof of Application to Beneficial Use \$ 25.00
14. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water \$ 50.00
15. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water \$ 50.00
16. Application for Test, Expl. Observ. Well \$ 5.00
17. Change of Ownership of Water Right \$ 2.00
18. Application to Repair or Deepen Non 72-12-1 Well \$ 5.00
19. Application for Replacement Well Non 72-12-1 Well \$ 5.00

B. Surface Water Rights Filing Fees

1. Declaration of Water Right \$ 10.00
2. Amended Declaration \$ 25.00
3. Declaration of Livestock Water Impoundment \$ 10.00
4. Application for Livestock Water Impoundment \$ 10.00
5. Application to Appropriate \$ 25.00
6. Notice of Intent to Appropriate \$ 25.00
7. Application to Change Point of Diversion \$100.00
8. Application to Change Place and/or Purpose of Use \$100.00
9. Application to Change Point of Diversion and Place and/or Purpose of Use \$200.00
10. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water \$200.00
11. Application for Extension of Time \$ 50.00
12. Supplemental Well to a Surface Right \$100.00
13. Return Flow Credit \$100.00
14. Proof of Completion of Works \$ 25.00
15. Proof of Application of Water to Beneficial Use \$ 25.00
16. Water Development Plan \$100.00
17. Change of Ownership \$ 5.00

C. Miscellaneous Fees

1. Application for Well Driller's License \$ 50.00
2. Application for Renewal of Well Driller's License \$ 50.00
3. Application to Amend Well Driller's License \$ 50.00

D. Reproduction of Documents

_____ @ 0.20¢/copy \$ _____

_____ Maps(s) \$ _____

E. Certification

_____ \$ _____

F. Other

G. Comments:

APPENDIX B
Standard Operating Procedures

Heated Headspace Field Screening Method for Soil Samples

All field activities will be conducted in accordance with the New Mexico Environment Department (NMED) Petroleum Storage Tank Regulations (20.5 NMAC), including Section 1.0; Soil and Groundwater Sampling and Disposal, found in the New Mexico Underground Storage Tank Bureau Guidelines for Corrective Action (March 13, 2000).

Soil samples to be screened in the field shall be placed in a sixteen (16)-ounce (or larger) clean glass jar until approximately one-half full. Clean aluminum foil shall be placed over the top of the jar and secured with the lid ring (or equivalent).

The sample shall not be evaluated until it reaches a temperature of at least 60 degrees Fahrenheit but shall not be allowed to reach a temperature in excess of 80 degrees Fahrenheit. When working in cold weather conditions, samples may be warmed to the appropriate evaluation temperature by placing them inside a heated vehicle. Samples shall be protected from exposure to direct sunlight.

Aromatic hydrocarbon vapor concentrations shall be allowed to develop for at least five (5) minutes prior to evaluating each sample. Samples shall be shaken vigorously to assist the development of vapors in the headspace.

After allowing sufficient time for the development of vapors in the headspace, the foil cover of the sample container shall be pierced using the probe of a photo-ionization detector (PID). The highest measurement of headspace vapors in parts per million (ppm) shall be recorded for each sample.

After evaluating the sample and recording the highest measurement of headspace vapors, the sample and the aluminum foil lid shall be disposed of properly. The sample container may be reused after it has been properly cleaned.

Soil Sample Collection Using Methanol Extraction

All field activities will be conducted in accordance with the New Mexico Environment Department (NMED) Petroleum Storage Tank Regulations (20.5 NMAC), including Section 1.0; Soil and Groundwater Sampling and Disposal, found in the New Mexico Underground Storage Tank Bureau Guidelines for Corrective Action (March 13, 2000).

Each soil sample collected shall be representative of the area intended for laboratory analysis. Soil samples may be collected from a backhoe bucket, split spoon sampler or the bottom or sidewall of an excavation only after the soil surface has been scraped away to expose fresh soil. The soil sample shall be collected using a disposable plastic syringe supplied by the laboratory. The graduated syringe shall be filled with approximately ten (10) cubic centimeters (cc) of fresh soil from the intended sample location.

Working carefully but quickly, the screw cap shall be removed from a twenty (20) milliliter (ml) glass sample vial containing methanol (supplied by the laboratory) and the soil sample shall be pushed from the syringe into the vial, taking care not to allow soil particles to adhere to the rim of the vial. The screw cap shall be replaced on the 20 ml glass vial containing the sample and tightened securely. Once the screw cap is secure, the sample shall be gently agitated to completely immerse the soil in the methanol. Excessive agitation of the sample shall be avoided.

Two (2) 40 ml sample vials containing soil and methanol shall be prepared in the field for each intended soil sample location. In addition to the 40 ml sample vials, a minimum of twenty (20) grams of dry soil (no methanol added) from each intended soil sample location shall be placed in a clean four (4) –ounce glass sample jar supplied by the laboratory. The labels on all three (3) sample containers shall correspond to one soil sample location.

All labeled soil sample containers shall be placed under ice in an insulated storage chest, and sealed with custody tape. The collected soil samples will be delivered with chain-of-custody documentation to a certified laboratory. The soil samples will be analyzed by the certified laboratory in accordance with the appropriate EPA Methodology.

Monitoring Well Installation

Upon borehole completion, a 2-inch diameter, Schedule 40 PVC pipe with a 15-foot (20 foot maximum) section of 0.010-inch slotted screen with a sediment sump and cap on the bottom will be lowered into and centered in each borehole. The well materials will be placed such that the top of the slotted screen is approximately 5 ft above the existing water table. Coarse grained (10/20) silica sand will be backfilled below and around the well screen to a depth of approximately 2 feet above and 2 feet below the screened interval. A filter pack seal will be placed extending 1 foot above the filter pack when appropriate. A bentonite seal, having an approximate thickness of 1.5 feet and consisting of hydrated bentonite pellets, will be constructed on top of the silica sand pack or filter pack seal. The remainder of the borehole will be backfilled with cement grout having a minimum five percent bentonite content to within approximately one foot of the top of the PVC well casing. The remainder of the backfill, approximately 12 inches, will consist of concrete. The top of the well casing will be terminated below grade, sealed with a lockable water-tight cap, and covered with a traffic-rated, steel protective well cover. A concrete slab of a minimum two (2) foot radius and six (6) inches thick will be poured around the well cover and sloped so that rainfall and runoff flows away from the well. Well completion logs including lithologic logs for the new monitoring wells will be included in the report.

The new monitoring wells will be developed first by surging the well for 5 to 10 minutes throughout the length of the well screen with a bailer or slug, followed by removal of the ground water and sediment from the well with a bailer. Each well will be surged and bailed in this manner until pH, temperature and specific conductivity readings stabilize and turbidity is reduced to the greatest extent possible.

Ground Water Sampling

All field activities will be conducted in accordance with the New Mexico Environment Department (NMED) Petroleum Storage Tank Regulations (20.5 NMAC), including Section 1.0; Soil and Groundwater Sampling and Disposal, found in the New Mexico Underground Storage Tank Bureau Guidelines for Corrective Action (March 13, 2000).

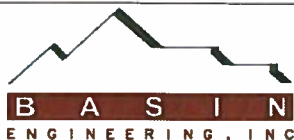
The NMED Petroleum Storage Tank Bureau (PSTB) Project Manager will be notified of the intent to sample the site at least ninety-six (96) hours in advance of the scheduled monitoring event.

Prior to sampling, an electronic interface probe will be used to measure the water levels and total depths of the monitoring wells to be sampled. These data will be used to calculate casing volumes of water for each well. The interface probe will also indicate if free phase hydrocarbons are present in the well. If free phase hydrocarbons are detected, the well will not be purged or sampled. If free phase hydrocarbons are not detected, the well will be purged using an HDPE disposable bailer to remove three casing volumes of water or, if the well is completed in a low transmissivity formation, water will be removed until the well is dry. Disposal of purged water will take place within the site property boundary on an impervious surface (if possible) near the well of origin. When specifically required by a Work Plan, purged water will be placed in a water-tight container and transported to an approved disposal or recycling facility.

After purging, the sample bailer will be used to transfer the ground water to sample bottles containing the appropriate preservative (if required). The sample bottles will then be labeled, placed under ice in an insulated storage chest, and sealed with custody tape. Ground water samples will be delivered with chain-of-custody documentation to a certified laboratory. The ground water samples will be analyzed by the certified laboratory in accordance with the appropriate EPA Methodology.

Water quality parameters including pH, temperature, specific conductance, total dissolved solids and dissolved oxygen will be measured immediately prior to sample collection. The date and time of sample collection, weather conditions, volume of water in the well, volume of water purged prior to sampling, physical sample descriptions (including turbidity, color and odor), other pertinent observations, and water quality measurements will be recorded on Ground Water Monitoring Data Sheets.

APPENDIX C
Soil Boring Log/Monitoring Well Schematic Drawing



LOG OF BORING: MW-5

(Page 1 of 1)

Phase I Secondary Investigation
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico
Project # 0301-16

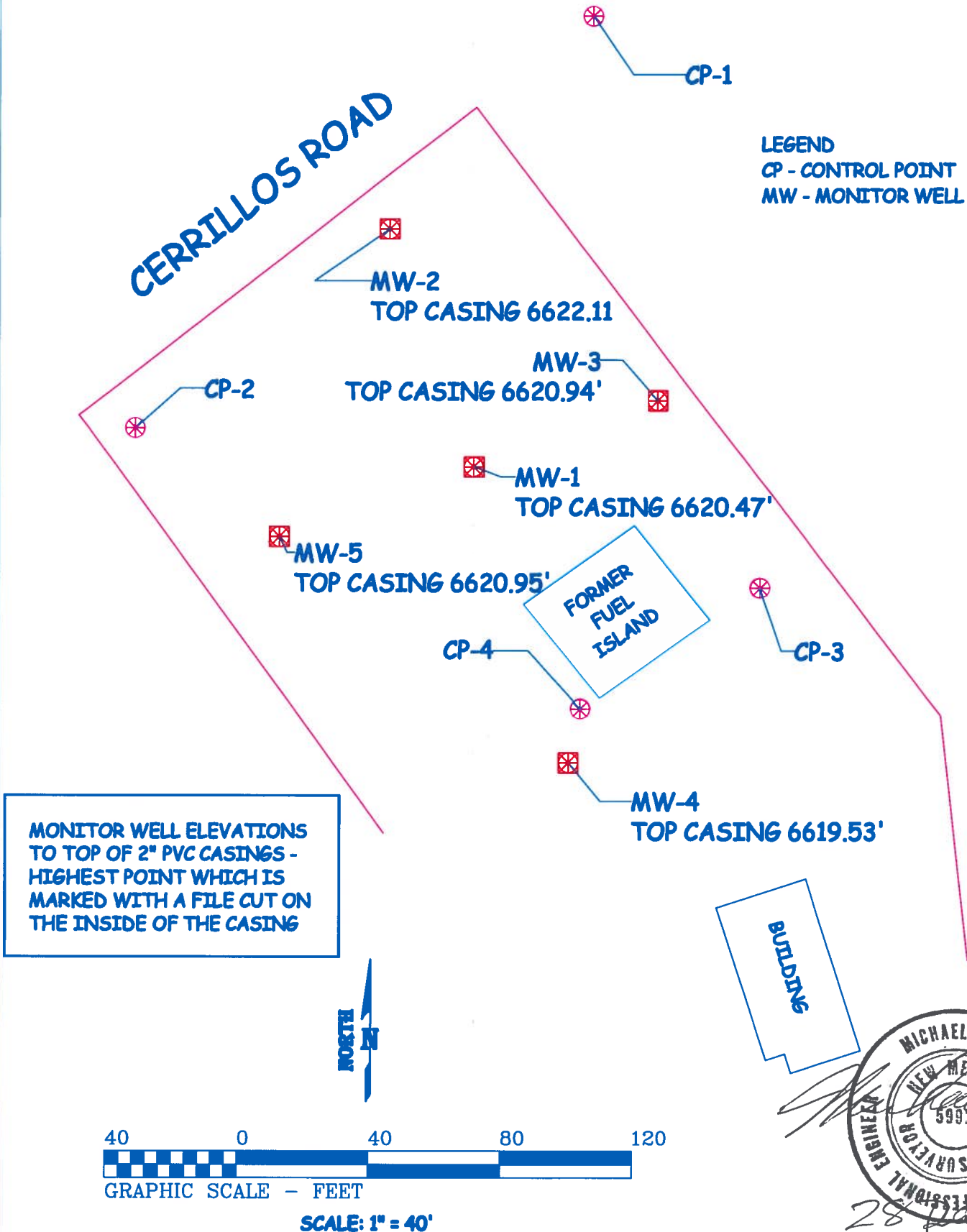
Date Started : 12/8/2011
Date Completed : 12/8/2011
Hole Diameter : 4 1/4 in.
Drilling Method : H.S.A.
Sampling Method : Continuous

Company Rep. : J. Casey
Northing Coord. : 1690230.767
Easting Coord. : 1712556.610
Survey By : Arrow
Logged By : J. Casey

Depth in Feet	Surf. Elev. 6621	USCS	GRAPHIC	DESCRIPTION	Samples	Depth in Feet	PID (ppm)	Odor	Well: MW-5 Elev. : 6620.95	Water Level	Well Construction Information
0	6621	BR		Asphalt		0					WELL CONSTRUCTION Date Compl. : 12/8/2011 Hole Diameter : 4 1/4" Drill. Method : H.S.A Company Rep. : J. Casey WELL CASING: Material : PVC Diameter : 2" Joints : Threaded WELL SCREEN Material : PVC Diameter : 2" Joints : Threaded Opening : 0.10 SAND PACK : 10-20 sand ANNULUS SEAL bentonite
5	6616	SP		SAND, medium grained, brown, loose, moist, non-plastic		5	0	none			
10	6611			decomposed granite, various colors of brown, dry, non-plastic, very dense		10	0	none			Cover grout riser seal sand screen
15	6606					15	0	none			
20	6601					20	0	none			
25	6596					25	0	none			
30	6591					30	0	none			
35	6586					35	0	none			
40	6581	GR				40	0	none			
45	6576			diesel odor and gray staining starts at 45 feet		45	2480	diesel			
50	6571					50	3890	diesel			
55	6566					55	3670	diesel			
60	6561					60	4120	diesel			
65	6556					65	4270	diesel			
70	6551					70	4250	diesel			
75	6546					75	3975	diesel			
80	6541	SP		SAND, brown, fine to medium grained, trace silt, non-plastic, saturated, dense		80	3610	diesel			
85	6536					85	1124	diesel			
90	6531			TD = 90 feet		90					
95						95					

APPENDIX D
Monitoring Well Survey

MONITOR WELL SURVEY OF FORMER SHAMROCK 63 3624 CERRILLOS ROAD SANTA FE, NM 87507 FOR BASIN ENGINEERING DURANGO, COLORADO



Point	Northing	Easting	Elev.	Description
8	1690251.819	1712617.861	6620.47	Shamrock MW 1
27	1690323.715	1712592.255	6622.11	Shamrock MW 2
9	1690271.875	1712673.835	6620.94	Shamrock MW 3
10	1690162.398	1712646.650	6619.53	Shamrock MW 4
11	1690387.977	1712653.816	6625.10	Shamrock CP 1
28	1690263.579	1712514.844	6622.01	Shamrock CP 2
12	1690215.281	1712704.669	6620.08	Shamrock CP 3
13	1690178.720	1712650.214	6620.28	Shamrock CP 4
1	1700963.620	1727015.680	6912.15	E439 H&V NMDOT
36	1688774.989	1710549.848	6585.94	NGS B 439
45	1690230.767	1712558.610	6620.95	Shamrock MW 5

HORIZONTAL DATUM - NM STATE PLANE COORDINATES, CENTRAL ZONE (3002).
CONTROL STATION NGS POINT E-439: PID FN0408. COORDINATES CARRIED BY RTK GPS SURVEYING.
VERTICAL CONTROL IS NGS FIRST ORDER STATION WHOSE RECORD ELEVATION IS 6585.94. ELEVATIONS CARRIED WITH LEICA PRECISE DIGITAL LEVEL.

CP-1: SURVEYOR'S POINT MARKED "SURVEY MARK LS 13986 IN DRIVEWAY TO LOFTS PROPERTY
CP-2: PK NAIL & WASHER +/-3' NE OF "DIESEL" SIGN
CP-3: PK NAIL & WASHER IN FRONT OF SIGN FOR LOFTS PROPERTY
CP-4: NAIL & WASHER 6' SW OF SW CORNER OF CONCRETE FUEL ISLAND.

I MICHAEL DALY, NEW MEXICO LAND SURVEYOR LS 5992, CERTIFY THAT I CONDUCTED THIS SURVEY AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THIS PLANT MEETS THE MINIMUM STANDARDS OF NEW MEXICO.

MICHAEL DALY
ARROW ENGINEERING, 1408 LINDA DRIVE, GALLUP, NM 87301-5616. CELL: 505-870-3430
E-MAIL: ARROWENGINEERING1@GMAIL.COM

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NVL2130
Client Project/Site: 0301 16
Client Project Description: Shamrock 63

For:
Basin Engineering, Inc.
208 Parker Avenue, Suite E
Durango, CO 81303

Attn: John E. Casey

Madonna Myers

Authorized for release by:
12/21/2011 11:47:45 AM

Madonna Myers
Project Manager
madonna.myers@testamericainc.com

LINKS

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results through

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

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

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Sample Summary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NVL2130-01	NW-5@ 8-9'	Soil	12/08/11 10:00	12/14/11 08:15
NVL2130-02	NW-5@ 64-65'	Soil	12/08/11 13:50	12/14/11 08:15
NVL2130-03	NW-5@ 73-74'	Soil	12/08/11 14:20	12/14/11 08:15

Definitions/Glossary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Client Sample ID: NW-5@ 8-9'

Lab Sample ID: NVL2130-01

Date Collected: 12/08/11 10:00

Matrix: Soil

Date Received: 12/14/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3.60		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1-Methylnaphthalene	ND		0.360		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
2-Methylnaphthalene	ND	M8	0.360		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Benzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Bromobenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Bromochloromethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Bromodichloromethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Bromoform	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Bromomethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,2-Dibromo-3-chloropropane	ND		0.360		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
2-Butanone	ND		3.60		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
sec-Butylbenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
n-Butylbenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
tert-Butylbenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Carbon disulfide	ND		0.360		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Carbon Tetrachloride	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Chlorobenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Chlorodibromomethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Chloroethane	ND		0.360		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Chloroform	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Chloromethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
2-Chlorotoluene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
4-Chlorotoluene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,2-Dibromoethane (EDB)	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Dibromomethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,4-Dichlorobenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,3-Dichlorobenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,2-Dichlorobenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Dichlorodifluoromethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,1-Dichloroethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,2-Dichloroethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
cis-1,2-Dichloroethene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,1-Dichloroethene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
trans-1,2-Dichloroethene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,3-Dichloropropane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,2-Dichloropropane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
2,2-Dichloropropane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
cis-1,3-Dichloropropene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
trans-1,3-Dichloropropene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,1-Dichloropropene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Ethylbenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Hexachlorobutadiene	ND		0.360		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
2-Hexanone	ND		3.60		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Isopropylbenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
p-Isopropyltoluene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Methyl tert-Butyl Ether	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Methylene Chloride	ND		0.720		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
4-Methyl-2-pentanone	ND		3.60		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Naphthalene	ND		0.360		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
n-Propylbenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Client Sample ID: NW-5@ 8-9'

Lab Sample ID: NVL2130-01

Date Collected: 12/08/11 10:00

Matrix: Soil

Date Received: 12/14/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,1,1,2-Tetrachloroethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,1,2,2-Tetrachloroethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Tetrachloroethene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Toluene	0.151		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,2,3-Trichlorobenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,2,4-Trichlorobenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,1,2-Trichloroethane	ND		0.360		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,1,1-Trichloroethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Trichloroethene	ND	M7	0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Trichlorofluoromethane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,2,3-Trichloropropane	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,3,5-Trimethylbenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
1,2,4-Trimethylbenzene	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Vinyl chloride	ND		0.144		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0
Xylenes, total	ND		0.360		mg/kg		12/08/11 10:00	12/20/11 08:54	50.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	102		70 - 130	12/08/11 10:00	12/20/11 08:54	50.0
Dibromofluoromethane	102		70 - 130	12/08/11 10:00	12/20/11 08:54	50.0
Toluene-d8	97		70 - 130	12/08/11 10:00	12/20/11 08:54	50.0
4-Bromofluorobenzene	94		70 - 130	12/08/11 10:00	12/20/11 08:54	50.0

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Client Sample ID: NW-5@ 64-65'

Lab Sample ID: NVL2130-02

Date Collected: 12/08/11 13:50

Matrix: Soil

Date Received: 12/14/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3.07		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1-Methylnaphthalene	5.36		0.307		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
2-Methylnaphthalene	10.6		0.307		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Benzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Bromobenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Bromochloromethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Bromodichloromethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Bromoform	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Bromomethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,2-Dibromo-3-chloropropane	ND		0.307		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
2-Butanone	ND		3.07		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
sec-Butylbenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
n-Butylbenzene	1.48		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
tert-Butylbenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Carbon disulfide	ND		0.307		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Carbon Tetrachloride	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Chlorobenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Chlorodibromomethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Chloroethane	ND		0.307		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Chloroform	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Chloromethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
2-Chlorotoluene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
4-Chlorotoluene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,2-Dibromoethane (EDB)	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Dibromomethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,4-Dichlorobenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,3-Dichlorobenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,2-Dichlorobenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Dichlorodifluoromethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,1-Dichloroethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,2-Dichloroethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
cis-1,2-Dichloroethene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,1-Dichloroethene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
trans-1,2-Dichloroethene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,3-Dichloropropane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,2-Dichloropropane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
2,2-Dichloropropane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
cis-1,3-Dichloropropene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
trans-1,3-Dichloropropene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,1-Dichloropropene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Ethylbenzene	0.173		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Hexachlorobutadiene	ND		0.307		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
2-Hexanone	ND		3.07		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Isopropylbenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
p-Isopropyltoluene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Methyl tert-Butyl Ether	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Methylene Chloride	ND		0.614		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
4-Methyl-2-pentanone	ND		3.07		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Naphthalene	3.91		0.307		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
n-Propylbenzene	0.348		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Client Sample ID: NW-5@ 64-65'

Lab Sample ID: NVL2130-02

Date Collected: 12/08/11 13:50

Matrix: Soil

Date Received: 12/14/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,1,1,2-Tetrachloroethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,1,2,2-Tetrachloroethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Tetrachloroethene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Toluene	0.141		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,2,3-Trichlorobenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,2,4-Trichlorobenzene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,1,2-Trichloroethane	ND		0.307		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,1,1-Trichloroethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Trichloroethene	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Trichlorofluoromethane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,2,3-Trichloropropane	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,3,5-Trimethylbenzene	1.91		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
1,2,4-Trimethylbenzene	5.90		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Vinyl chloride	ND		0.123		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0
Xylenes, total	1.39		0.307		mg/kg		12/08/11 13:50	12/20/11 09:22	50.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	101		70 - 130	12/08/11 13:50	12/20/11 09:22	50.0
Dibromofluoromethane	101		70 - 130	12/08/11 13:50	12/20/11 09:22	50.0
Toluene-d8	96		70 - 130	12/08/11 13:50	12/20/11 09:22	50.0
4-Bromofluorobenzene	99		70 - 130	12/08/11 13:50	12/20/11 09:22	50.0

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Client Sample ID: NW-5@ 73-74'

Lab Sample ID: NVL2130-03

Date Collected: 12/08/11 14:20

Matrix: Soil

Date Received: 12/14/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3.16		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1-Methylnaphthalene	2.45		0.316		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
2-Methylnaphthalene	3.98		0.316		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Benzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Bromobenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Bromochloromethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Bromodichloromethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Bromoform	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Bromomethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,2-Dibromo-3-chloropropane	ND		0.316		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
2-Butanone	ND		3.16		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
sec-Butylbenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
n-Butylbenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
tert-Butylbenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Carbon disulfide	ND		0.316		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Carbon Tetrachloride	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Chlorobenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Chlorodibromomethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Chloroethane	ND		0.316		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Chloroform	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Chloromethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
2-Chlorotoluene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
4-Chlorotoluene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,2-Dibromoethane (EDB)	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Dibromomethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,4-Dichlorobenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,3-Dichlorobenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,2-Dichlorobenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Dichlorodifluoromethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,1-Dichloroethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,2-Dichloroethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
cis-1,2-Dichloroethene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,1-Dichloroethene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
trans-1,2-Dichloroethene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,3-Dichloropropane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,2-Dichloropropane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
2,2-Dichloropropane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
cis-1,3-Dichloropropene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
trans-1,3-Dichloropropene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,1-Dichloropropene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Ethylbenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Hexachlorobutadiene	ND		0.316		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
2-Hexanone	ND		3.16		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Isopropylbenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
p-Isopropyltoluene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Methyl tert-Butyl Ether	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Methylene Chloride	ND		0.633		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
4-Methyl-2-pentanone	ND		3.16		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Naphthalene	0.420		0.316		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
n-Propylbenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Client Sample ID: NW-5@ 73-74'

Lab Sample ID: NVL2130-03

Date Collected: 12/08/11 14:20

Matrix: Soil

Date Received: 12/14/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,1,1,2-Tetrachloroethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,1,2,2-Tetrachloroethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Tetrachloroethene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Toluene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,2,3-Trichlorobenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,2,4-Trichlorobenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,1,2-Trichloroethane	ND		0.316		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,1,1-Trichloroethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Trichloroethene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Trichlorofluoromethane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,2,3-Trichloropropane	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,3,5-Trimethylbenzene	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
1,2,4-Trimethylbenzene	0.169		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Vinyl chloride	ND		0.127		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0
Xylenes, total	ND		0.316		mg/kg		12/08/11 14:20	12/20/11 09:50	50.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	99		70 - 130	12/08/11 14:20	12/20/11 09:50	50.0
Dibromofluoromethane	97		70 - 130	12/08/11 14:20	12/20/11 09:50	50.0
Toluene-d8	97		70 - 130	12/08/11 14:20	12/20/11 09:50	50.0
4-Bromofluorobenzene	91		70 - 130	12/08/11 14:20	12/20/11 09:50	50.0

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11L4624-BLK1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1-Methylnaphthalene	ND		0.250		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
2-Methylnaphthalene	ND		0.250		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Benzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Bromobenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Bromochloromethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Bromodichloromethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Bromoform	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Bromomethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
2-Butanone	ND		2.50		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
sec-Butylbenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
n-Butylbenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
tert-Butylbenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Carbon disulfide	ND		0.250		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Carbon Tetrachloride	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Chlorobenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Chlorodibromomethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Chloroethane	ND		0.250		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Chloroform	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Chloromethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
2-Chlorotoluene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
4-Chlorotoluene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Dibromomethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,1-Dichloroethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,2-Dichloroethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,1-Dichloroethene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,3-Dichloropropane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,2-Dichloropropane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
2,2-Dichloropropane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,1-Dichloropropene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Ethylbenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Hexachlorobutadiene	ND		0.250		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
2-Hexanone	ND		2.50		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Isopropylbenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
p-Isopropyltoluene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Methylene Chloride	ND		0.500		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Naphthalene	ND		0.250		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4624-BLK1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Styrene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Tetrachloroethene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Toluene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Trichloroethene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Trichlorofluoromethane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Vinyl chloride	ND		0.100		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0
Xylenes, total	ND		0.250		mg/kg		12/20/11 04:42	12/20/11 07:58	50.0

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	104		70 - 130	12/20/11 04:42	12/20/11 07:58	50.0
Dibromofluoromethane	107		70 - 130	12/20/11 04:42	12/20/11 07:58	50.0
Toluene-d8	97		70 - 130	12/20/11 04:42	12/20/11 07:58	50.0
4-Bromofluorobenzene	93		70 - 130	12/20/11 04:42	12/20/11 07:58	50.0

Lab Sample ID: 11L4624-BS1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	261		ug/kg		105	51 - 149
1-Methylnaphthalene	50.0	47.2		ug/kg		94	40 - 150
2-Methylnaphthalene	50.0	43.1		ug/kg		86	24 - 150
Benzene	50.0	48.6		ug/kg		97	75 - 127
Bromobenzene	50.0	43.2		ug/kg		86	75 - 130
Bromochloromethane	50.0	53.2		ug/kg		106	70 - 132
Bromodichloromethane	50.0	48.0		ug/kg		96	68 - 135
Bromoform	50.0	42.6		ug/kg		85	36 - 150
Bromomethane	50.0	36.8		ug/kg		74	43 - 142
1,2-Dibromo-3-chloropropane	50.0	43.2		ug/kg		86	49 - 142
2-Butanone	250	242		ug/kg		97	61 - 132
sec-Butylbenzene	50.0	49.2		ug/kg		98	79 - 141
n-Butylbenzene	50.0	47.8		ug/kg		96	72 - 152
tert-Butylbenzene	50.0	47.0		ug/kg		94	80 - 132
Carbon disulfide	50.0	44.8		ug/kg		90	74 - 135
Carbon Tetrachloride	50.0	55.0		ug/kg		110	70 - 141
Chlorobenzene	50.0	49.5		ug/kg		99	84 - 125
Chlorodibromomethane	50.0	52.1		ug/kg		104	66 - 134
Chloroethane	50.0	43.1		ug/kg		86	53 - 144
Chloroform	50.0	50.8		ug/kg		102	76 - 130

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4624-BS1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloromethane	50.0	26.4		ug/kg		53	23 - 150
2-Chlorotoluene	50.0	44.4		ug/kg		89	78 - 132
4-Chlorotoluene	50.0	45.6		ug/kg		91	77 - 138
1,2-Dibromoethane (EDB)	50.0	49.2		ug/kg		98	80 - 135
Dibromomethane	50.0	48.4		ug/kg		97	71 - 130
1,4-Dichlorobenzene	50.0	48.7		ug/kg		97	77 - 139
1,3-Dichlorobenzene	50.0	48.3		ug/kg		97	79 - 137
1,2-Dichlorobenzene	50.0	48.8		ug/kg		98	80 - 134
Dichlorodifluoromethane	50.0	39.8		ug/kg		80	12 - 144
1,1-Dichloroethane	50.0	49.0		ug/kg		98	75 - 124
1,2-Dichloroethane	50.0	50.8		ug/kg		102	65 - 134
cis-1,2-Dichloroethene	50.0	47.9		ug/kg		96	75 - 125
1,1-Dichloroethene	50.0	51.8		ug/kg		104	75 - 131
trans-1,2-Dichloroethene	50.0	49.4		ug/kg		99	76 - 128
1,3-Dichloropropane	50.0	47.3		ug/kg		95	78 - 126
1,2-Dichloropropane	50.0	43.2		ug/kg		86	69 - 120
2,2-Dichloropropane	50.0	44.8		ug/kg		90	68 - 145
cis-1,3-Dichloropropene	50.0	46.8		ug/kg		94	73 - 148
trans-1,3-Dichloropropene	50.0	45.6		ug/kg		91	62 - 139
1,1-Dichloropropene	50.0	50.0		ug/kg		100	79 - 127
Ethylbenzene	50.0	48.2		ug/kg		96	80 - 134
Hexachlorobutadiene	50.0	44.0		ug/kg		88	65 - 148
2-Hexanone	250	233		ug/kg		93	57 - 148
Isopropylbenzene	50.0	50.9		ug/kg		102	80 - 150
p-Isopropyltoluene	50.0	49.0		ug/kg		98	77 - 141
Methyl tert-Butyl Ether	50.0	46.5		ug/kg		93	70 - 136
Methylene Chloride	50.0	53.1		ug/kg		106	68 - 144
4-Methyl-2-pentanone	250	227		ug/kg		91	59 - 138
Naphthalene	50.0	45.7		ug/kg		91	69 - 150
n-Propylbenzene	50.0	45.3		ug/kg		91	75 - 137
Styrene	50.0	46.8		ug/kg		94	82 - 137
1,1,1,2-Tetrachloroethane	50.0	50.4		ug/kg		101	80 - 136
1,1,2,2-Tetrachloroethane	50.0	41.4		ug/kg		83	66 - 134
Tetrachloroethene	50.0	50.8		ug/kg		102	78 - 140
Toluene	50.0	48.9		ug/kg		98	80 - 132
1,2,3-Trichlorobenzene	50.0	49.0		ug/kg		98	70 - 150
1,2,4-Trichlorobenzene	50.0	47.4		ug/kg		95	62 - 150
1,1,2-Trichloroethane	50.0	49.6		ug/kg		99	78 - 128
1,1,1-Trichloroethane	50.0	52.3		ug/kg		105	72 - 140
Trichloroethene	50.0	52.8		ug/kg		106	77 - 127
Trichlorofluoromethane	50.0	51.4		ug/kg		103	50 - 140
1,2,3-Trichloropropane	50.0	43.5		ug/kg		87	65 - 139
1,3,5-Trimethylbenzene	50.0	47.0		ug/kg		94	78 - 138
1,2,4-Trimethylbenzene	50.0	46.6		ug/kg		93	77 - 139
Vinyl chloride	50.0	43.0		ug/kg		86	47 - 136
Xylenes, total	150	145		ug/kg		97	80 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4	89		70 - 130

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4624-BS1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L4624_P

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	94		70 - 130
Toluene-d8	104		70 - 130
4-Bromofluorobenzene	98		70 - 130

Lab Sample ID: 11L4624-BSD1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	289		ug/kg		116	51 - 149	10	50
1-Methylnaphthalene	50.0	41.8		ug/kg		84	40 - 150	12	50
2-Methylnaphthalene	50.0	44.8		ug/kg		90	24 - 150	4	50
Benzene	50.0	45.8		ug/kg		92	75 - 127	6	50
Bromobenzene	50.0	42.4		ug/kg		85	75 - 130	2	50
Bromochloromethane	50.0	50.3		ug/kg		101	70 - 132	6	50
Bromodichloromethane	50.0	45.5		ug/kg		91	68 - 135	5	50
Bromoform	50.0	42.4		ug/kg		85	36 - 150	0.7	50
Bromomethane	50.0	34.0		ug/kg		68	43 - 142	8	50
1,2-Dibromo-3-chloropropane	50.0	43.3		ug/kg		87	49 - 142	0.4	50
2-Butanone	250	240		ug/kg		96	61 - 132	1	50
sec-Butylbenzene	50.0	48.4		ug/kg		97	79 - 141	2	50
n-Butylbenzene	50.0	47.8		ug/kg		96	72 - 152	0.02	50
tert-Butylbenzene	50.0	46.5		ug/kg		93	80 - 132	1	50
Carbon disulfide	50.0	43.0		ug/kg		86	74 - 135	4	50
Carbon Tetrachloride	50.0	52.0		ug/kg		104	70 - 141	6	50
Chlorobenzene	50.0	47.9		ug/kg		96	84 - 125	3	50
Chlorodibromomethane	50.0	50.3		ug/kg		101	66 - 134	4	50
Chloroethane	50.0	41.9		ug/kg		84	53 - 144	3	50
Chloroform	50.0	47.9		ug/kg		96	76 - 130	6	49
Chloromethane	50.0	25.6		ug/kg		51	23 - 150	3	50
2-Chlorotoluene	50.0	43.7		ug/kg		87	78 - 132	2	50
4-Chlorotoluene	50.0	44.6		ug/kg		89	77 - 138	2	50
1,2-Dibromoethane (EDB)	50.0	48.6		ug/kg		97	80 - 135	1	50
Dibromomethane	50.0	46.3		ug/kg		93	71 - 130	5	50
1,4-Dichlorobenzene	50.0	48.0		ug/kg		96	77 - 139	1	50
1,3-Dichlorobenzene	50.0	47.2		ug/kg		94	79 - 137	2	50
1,2-Dichlorobenzene	50.0	48.2		ug/kg		96	80 - 134	1	50
Dichlorodifluoromethane	50.0	39.3		ug/kg		79	12 - 144	1	50
1,1-Dichloroethane	50.0	46.9		ug/kg		94	75 - 124	4	50
1,2-Dichloroethane	50.0	47.9		ug/kg		96	65 - 134	6	50
cis-1,2-Dichloroethene	50.0	45.4		ug/kg		91	75 - 125	5	50
1,1-Dichloroethene	50.0	49.2		ug/kg		98	75 - 131	5	50
trans-1,2-Dichloroethene	50.0	47.0		ug/kg		94	76 - 128	5	50
1,3-Dichloropropane	50.0	46.3		ug/kg		93	78 - 126	2	42
1,2-Dichloropropane	50.0	41.0		ug/kg		82	69 - 120	5	50
2,2-Dichloropropane	50.0	41.9		ug/kg		84	68 - 145	7	50
cis-1,3-Dichloropropene	50.0	44.9		ug/kg		90	73 - 148	4	50
trans-1,3-Dichloropropene	50.0	44.2		ug/kg		88	62 - 139	3	50
1,1-Dichloropropene	50.0	47.6		ug/kg		95	79 - 127	5	50

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4624-BSD1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	50.0	46.5		ug/kg		93	80 - 134	4	50
Hexachlorobutadiene	50.0	43.9		ug/kg		88	65 - 148	0.3	50
2-Hexanone	250	230		ug/kg		92	57 - 148	2	50
Isopropylbenzene	50.0	49.4		ug/kg		99	80 - 150	3	50
p-Isopropyltoluene	50.0	48.0		ug/kg		96	77 - 141	2	50
Methyl tert-Butyl Ether	50.0	44.7		ug/kg		89	70 - 136	4	50
Methylene Chloride	50.0	50.1		ug/kg		100	68 - 144	6	50
4-Methyl-2-pentanone	250	224		ug/kg		90	59 - 138	1	50
Naphthalene	50.0	46.1		ug/kg		92	69 - 150	0.8	50
n-Propylbenzene	50.0	44.3		ug/kg		89	75 - 137	2	50
Styrene	50.0	45.2		ug/kg		90	82 - 137	3	50
1,1,1,2-Tetrachloroethane	50.0	48.2		ug/kg		96	80 - 136	5	50
1,1,2,2-Tetrachloroethane	50.0	40.4		ug/kg		81	66 - 134	2	50
Tetrachloroethene	50.0	48.9		ug/kg		98	78 - 140	4	50
Toluene	50.0	46.8		ug/kg		94	80 - 132	5	50
1,2,3-Trichlorobenzene	50.0	49.7		ug/kg		99	70 - 150	1	50
1,2,4-Trichlorobenzene	50.0	47.8		ug/kg		96	62 - 150	0.9	50
1,1,2-Trichloroethane	50.0	48.6		ug/kg		97	78 - 128	2	50
1,1,1-Trichloroethane	50.0	49.5		ug/kg		99	72 - 140	5	50
Trichloroethene	50.0	51.2		ug/kg		102	77 - 127	3	50
Trichlorofluoromethane	50.0	50.2		ug/kg		100	50 - 140	2	50
1,2,3-Trichloropropane	50.0	43.1		ug/kg		86	65 - 139	1	50
1,3,5-Trimethylbenzene	50.0	46.0		ug/kg		92	78 - 138	2	50
1,2,4-Trimethylbenzene	50.0	46.3		ug/kg		93	77 - 139	0.6	50
Vinyl chloride	50.0	42.6		ug/kg		85	47 - 136	1	50
Xylenes, total	150	140		ug/kg		94	80 - 137	3	50

Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits
1,2-Dichloroethane-d4	88		70 - 130
Dibromofluoromethane	95		70 - 130
Toluene-d8	105		70 - 130
4-Bromofluorobenzene	100		70 - 130

Lab Sample ID: 11L4624-MS1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: NW-5@ 73-74'

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		15.8	22.0		mg/kg		139	19 - 175
2-Methylnaphthalene	3.98		3.16	2.10	M8	mg/kg		-59	10 - 172
Benzene	ND		3.16	3.20		mg/kg		101	31 - 143
Bromobenzene	ND		3.16	2.90		mg/kg		92	12 - 157
Bromochloromethane	ND		3.16	3.26		mg/kg		103	31 - 141
Bromodichloromethane	ND		3.16	2.96		mg/kg		94	19 - 148
Bromoform	ND		3.16	2.58		mg/kg		81	10 - 165
Bromomethane	ND		3.16	0.883		mg/kg		28	10 - 164
1,2-Dibromo-3-chloropropane	ND		3.16	2.61		mg/kg		83	10 - 147
2-Butanone	ND		15.8	16.6		mg/kg		105	18 - 153
sec-Butylbenzene	ND		3.16	3.26		mg/kg		103	12 - 170

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4624-MS1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: NW-5@ 73-74'

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
n-Butylbenzene	ND		3.16	3.35		mg/kg		106	10 - 175
tert-Butylbenzene	ND		3.16	3.26		mg/kg		103	20 - 164
Carbon disulfide	ND		3.16	2.76		mg/kg		87	32 - 144
Carbon Tetrachloride	ND		3.16	3.44		mg/kg		109	31 - 149
Chlorobenzene	ND		3.16	3.22		mg/kg		102	25 - 152
Chlorodibromomethane	ND		3.16	3.19		mg/kg		101	14 - 146
Chloroethane	ND		3.16	0.937		mg/kg		30	10 - 151
Chloroform	ND		3.16	3.26		mg/kg		103	34 - 160
Chloromethane	ND		3.16	1.78		mg/kg		56	10 - 156
2-Chlorotoluene	ND		3.16	3.09		mg/kg		98	20 - 156
4-Chlorotoluene	ND		3.16	3.15		mg/kg		100	17 - 159
1,2-Dibromoethane (EDB)	ND		3.16	3.09		mg/kg		98	18 - 156
Dibromomethane	ND		3.16	2.92		mg/kg		92	20 - 146
1,4-Dichlorobenzene	ND		3.16	3.16		mg/kg		100	11 - 159
1,3-Dichlorobenzene	ND		3.16	3.14		mg/kg		99	10 - 162
1,2-Dichlorobenzene	ND		3.16	3.23		mg/kg		102	10 - 160
Dichlorodifluoromethane	ND		3.16	2.37		mg/kg		75	10 - 143
1,1-Dichloroethane	ND		3.16	3.24		mg/kg		102	42 - 136
1,2-Dichloroethane	ND		3.16	3.11		mg/kg		98	28 - 138
cis-1,2-Dichloroethene	ND		3.16	3.12		mg/kg		99	36 - 139
1,1-Dichloroethene	ND		3.16	3.41		mg/kg		108	41 - 143
trans-1,2-Dichloroethene	ND		3.16	3.19		mg/kg		101	39 - 140
1,3-Dichloropropane	ND		3.16	3.00		mg/kg		95	22 - 148
1,2-Dichloropropane	ND		3.16	2.77		mg/kg		88	20 - 146
2,2-Dichloropropane	ND		3.16	2.68		mg/kg		85	33 - 148
cis-1,3-Dichloropropene	ND		3.16	2.93		mg/kg		93	15 - 166
trans-1,3-Dichloropropene	ND		3.16	2.81		mg/kg		89	10 - 157
1,1-Dichloropropene	ND		3.16	3.28		mg/kg		104	38 - 145
Ethylbenzene	ND		3.16	3.18		mg/kg		101	23 - 161
Hexachlorobutadiene	ND		3.16	2.78		mg/kg		88	10 - 171
2-Hexanone	ND		15.8	15.9		mg/kg		101	10 - 169
Isopropylbenzene	ND		3.16	3.33		mg/kg		105	23 - 181
p-Isopropyltoluene	ND		3.16	3.26		mg/kg		103	12 - 168
Methyl tert-Butyl Ether	ND		3.16	2.76		mg/kg		87	28 - 141
Methylene Chloride	ND		3.16	3.42		mg/kg		108	24 - 182
4-Methyl-2-pentanone	ND		15.8	14.8		mg/kg		93	10 - 168
Naphthalene	0.420		3.16	2.78		mg/kg		74	10 - 176
n-Propylbenzene	ND		3.16	3.18		mg/kg		100	19 - 162
Styrene	ND		3.16	3.01		mg/kg		95	10 - 165
1,1,1,2-Tetrachloroethane	ND		3.16	3.23		mg/kg		102	19 - 158
1,1,2,2-Tetrachloroethane	ND		3.16	0.608		mg/kg		19	10 - 162
Tetrachloroethene	ND		3.16	3.36		mg/kg		106	33 - 161
Toluene	ND		3.16	3.29		mg/kg		104	30 - 155
1,2,3-Trichlorobenzene	ND		3.16	2.98		mg/kg		94	10 - 157
1,2,4-Trichlorobenzene	ND		3.16	3.04		mg/kg		96	10 - 167
1,1,2-Trichloroethane	ND		3.16	3.10		mg/kg		98	19 - 157
1,1,1-Trichloroethane	ND		3.16	3.32		mg/kg		105	35 - 149
Trichloroethene	ND		3.16	5.47	M7	mg/kg		173	27 - 153
Trichlorofluoromethane	ND		3.16	3.04		mg/kg		96	25 - 137
1,2,3-Trichloropropane	ND		3.16	2.69		mg/kg		85	10 - 157

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4624-MS1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: NW-5@ 73-74'

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
1,3,5-Trimethylbenzene	ND		3.16	3.21		mg/kg		101	18 - 164
1,2,4-Trimethylbenzene	0.169		3.16	3.19		mg/kg		96	14 - 165
Vinyl chloride	ND		3.16	2.82		mg/kg		89	20 - 141
Xylenes, total	ND		9.49	9.51		mg/kg		100	25 - 162

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
1,2-Dichloroethane-d4	98		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8	98		70 - 130
4-Bromofluorobenzene	93		70 - 130

Lab Sample ID: 11L4624-MSD1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: NW-5@ 73-74'

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Acetone	ND		15.8	23.6		mg/kg		149	19 - 175	7	50
2-Methylnaphthalene	3.98		3.16	2.93	M8	mg/kg		-33	10 - 172	33	50
Benzene	ND		3.16	3.08		mg/kg		97	31 - 143	4	50
Bromobenzene	ND		3.16	2.81		mg/kg		89	12 - 157	3	50
Bromochloromethane	ND		3.16	3.24		mg/kg		102	31 - 141	0.8	50
Bromodichloromethane	ND		3.16	2.84		mg/kg		90	19 - 148	4	50
Bromoform	ND		3.16	2.57		mg/kg		81	10 - 165	0.1	50
Bromomethane	ND		3.16	0.850		mg/kg		27	10 - 164	4	50
1,2-Dibromo-3-chloropropane	ND		3.16	2.56		mg/kg		81	10 - 147	2	50
2-Butanone	ND		15.8	17.7		mg/kg		112	18 - 153	6	50
sec-Butylbenzene	ND		3.16	3.23		mg/kg		102	12 - 170	0.8	50
n-Butylbenzene	ND		3.16	3.27		mg/kg		103	10 - 175	2	50
tert-Butylbenzene	ND		3.16	3.20		mg/kg		101	20 - 164	2	50
Carbon disulfide	ND		3.16	2.62		mg/kg		83	32 - 144	5	50
Carbon Tetrachloride	ND		3.16	3.27		mg/kg		103	31 - 149	5	50
Chlorobenzene	ND		3.16	3.12		mg/kg		98	25 - 152	3	50
Chlorodibromomethane	ND		3.16	3.08		mg/kg		97	14 - 146	4	50
Chloroethane	ND		3.16	0.734		mg/kg		23	10 - 151	24	50
Chloroform	ND		3.16	3.14		mg/kg		99	34 - 160	4	49
Chloromethane	ND		3.16	1.76		mg/kg		56	10 - 156	1	50
2-Chlorotoluene	ND		3.16	2.98		mg/kg		94	20 - 156	4	50
4-Chlorotoluene	ND		3.16	3.06		mg/kg		97	17 - 159	3	50
1,2-Dibromoethane (EDB)	ND		3.16	3.03		mg/kg		96	18 - 156	2	50
Dibromomethane	ND		3.16	2.88		mg/kg		91	20 - 146	1	50
1,4-Dichlorobenzene	ND		3.16	3.10		mg/kg		98	11 - 159	2	50
1,3-Dichlorobenzene	ND		3.16	3.07		mg/kg		97	10 - 162	2	50
1,2-Dichlorobenzene	ND		3.16	3.07		mg/kg		97	10 - 160	5	50
Dichlorodifluoromethane	ND		3.16	2.38		mg/kg		75	10 - 143	0.4	50
1,1-Dichloroethane	ND		3.16	3.10		mg/kg		98	42 - 136	4	50
1,2-Dichloroethane	ND		3.16	2.97		mg/kg		94	28 - 138	5	50
cis-1,2-Dichloroethene	ND		3.16	2.99		mg/kg		94	36 - 139	4	50
1,1-Dichloroethene	ND		3.16	3.23		mg/kg		102	41 - 143	5	50
trans-1,2-Dichloroethene	ND		3.16	3.04		mg/kg		96	39 - 140	5	50

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4624-MSD1

Matrix: Soil

Analysis Batch: U022322

Client Sample ID: NW-5@ 73-74'

Prep Type: Total

Prep Batch: 11L4624_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane	ND		3.16	2.93		mg/kg		93	22 - 148	2	42
1,2-Dichloropropane	ND		3.16	2.70		mg/kg		85	20 - 146	3	50
2,2-Dichloropropane	ND		3.16	2.54		mg/kg		80	33 - 148	5	50
cis-1,3-Dichloropropene	ND		3.16	2.80		mg/kg		89	15 - 166	5	50
trans-1,3-Dichloropropene	ND		3.16	2.73		mg/kg		86	10 - 157	3	50
1,1-Dichloropropene	ND		3.16	3.14		mg/kg		99	38 - 145	5	50
Ethylbenzene	ND		3.16	3.07		mg/kg		97	23 - 161	3	50
Hexachlorobutadiene	ND		3.16	2.94		mg/kg		93	10 - 171	6	50
2-Hexanone	ND		15.8	16.9		mg/kg		107	10 - 169	6	50
Isopropylbenzene	ND		3.16	3.23		mg/kg		102	23 - 181	3	50
p-Isopropyltoluene	ND		3.16	3.26		mg/kg		103	12 - 168	0.3	50
Methyl tert-Butyl Ether	ND		3.16	2.69		mg/kg		85	28 - 141	3	50
Methylene Chloride	ND		3.16	3.26		mg/kg		103	24 - 182	5	50
4-Methyl-2-pentanone	ND		15.8	14.7		mg/kg		93	10 - 168	0.4	50
Naphthalene	0.420		3.16	2.91		mg/kg		79	10 - 176	5	50
n-Propylbenzene	ND		3.16	3.06		mg/kg		97	19 - 162	4	50
Styrene	ND		3.16	2.95		mg/kg		93	10 - 165	2	50
1,1,1,2-Tetrachloroethane	ND		3.16	3.10		mg/kg		98	19 - 158	4	50
1,1,2,2-Tetrachloroethane	ND		3.16	0.816		mg/kg		26	10 - 162	29	50
Tetrachloroethene	ND		3.16	3.18		mg/kg		100	33 - 161	5	50
Toluene	ND		3.16	3.18		mg/kg		101	30 - 155	3	50
1,2,3-Trichlorobenzene	ND		3.16	3.17		mg/kg		100	10 - 157	6	50
1,2,4-Trichlorobenzene	ND		3.16	3.15		mg/kg		99	10 - 167	3	50
1,1,2-Trichloroethane	ND		3.16	3.01		mg/kg		95	19 - 157	3	50
1,1,1-Trichloroethane	ND		3.16	3.16		mg/kg		100	35 - 149	5	50
Trichloroethene	ND		3.16	5.02	M7	mg/kg		159	27 - 153	9	50
Trichlorofluoromethane	ND		3.16	2.66		mg/kg		84	25 - 137	13	50
1,2,3-Trichloropropane	ND		3.16	2.62		mg/kg		83	10 - 157	3	50
1,3,5-Trimethylbenzene	ND		3.16	3.14		mg/kg		99	18 - 164	2	50
1,2,4-Trimethylbenzene	0.169		3.16	3.13		mg/kg		94	14 - 165	2	50
Vinyl chloride	ND		3.16	2.78		mg/kg		88	20 - 141	1	50
Xylenes, total	ND		9.49	9.17		mg/kg		97	25 - 162	4	50

Surrogate	Matrix Spike Dup %Recovery	Matrix Spike Dup Qualifier	Matrix Spike Dup Limits
1,2-Dichloroethane-d4	96		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8	98		70 - 130
4-Bromofluorobenzene	94		70 - 130

QC Association Summary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

GCMS Volatiles

Analysis Batch: U022322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L4624-BLK1	Method Blank	Total	Soil	SW846 8260B	11L4624_P
11L4624-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11L4624_P
11L4624-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	11L4624_P
11L4624-MS1	NW-5@ 73-74'	Total	Soil	SW846 8260B	11L4624_P
11L4624-MSD1	NW-5@ 73-74'	Total	Soil	SW846 8260B	11L4624_P
NVL2130-01	NW-5@ 8-9'	Total	Soil	SW846 8260B	11L4624_P
NVL2130-02	NW-5@ 64-65'	Total	Soil	SW846 8260B	11L4624_P
NVL2130-03	NW-5@ 73-74'	Total	Soil	SW846 8260B	11L4624_P

Prep Batch: 11L4624_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L4624-BLK1	Method Blank	Total	Soil	EPA 5035	
11L4624-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11L4624-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
11L4624-MS1	NW-5@ 73-74'	Total	Soil	EPA 5035	
11L4624-MSD1	NW-5@ 73-74'	Total	Soil	EPA 5035	
NVL2130-01	NW-5@ 8-9'	Total	Soil	EPA 5035	
NVL2130-02	NW-5@ 64-65'	Total	Soil	EPA 5035	
NVL2130-03	NW-5@ 73-74'	Total	Soil	EPA 5035	

Lab Chronicle

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Client Sample ID: NW-5@ 8-9'

Lab Sample ID: NVL2130-01

Date Collected: 12/08/11 10:00

Matrix: Soil

Date Received: 12/14/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		1.44	11L4624_P	12/08/11 10:00	AAN	TAL NSH
Total	Analysis	SW846 8260B		50.0	U022322	12/20/11 08:54	CMM	TAL NSH

Client Sample ID: NW-5@ 64-65'

Lab Sample ID: NVL2130-02

Date Collected: 12/08/11 13:50

Matrix: Soil

Date Received: 12/14/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		1.23	11L4624_P	12/08/11 13:50	AAN	TAL NSH
Total	Analysis	SW846 8260B		50.0	U022322	12/20/11 09:22	CMM	TAL NSH

Client Sample ID: NW-5@ 73-74'

Lab Sample ID: NVL2130-03

Date Collected: 12/08/11 14:20

Matrix: Soil

Date Received: 12/14/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		1.27	11L4624_P	12/08/11 14:20	AAN	TAL NSH
Total	Analysis	SW846 8260B		50.0	U022322	12/20/11 09:50	CMM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2130

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA - LAP	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canada (CALA)	Canada (CALA)		3744
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

COOLER RECEIPT



NVL2130

Cooler Received/Opened On 12/14/2011 @ 0815

1. Tracking # 1714 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 29 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: CP Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA 50ml

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (Initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (Initial) [Signature]

21. Were there Non-Conformance Issues at login? YES...NO Was a PIPE generated? YES...NO...# 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Road

Nashville, TN 37204

Tel: 800-765-0980

TestAmerica Job ID: NVL2728

Client Project/Site: 0301 16

Client Project Description: Shamrock 63

For:

Basin Engineering, Inc.

208 Parker Avenue, Suite E

Durango, CO 81303

Attn: John E. Casey

Madonna Myers

Authorized for release by:

12/29/2011 1:48:37 PM

Madonna Myers

Project Manager

madonna.myers@testamericainc.com

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results through

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

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

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Sample Summary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NVL2728-01	MW-4	Ground Water	12/15/11 13:30	12/17/11 08:15
NVL2728-02	MW-3	Ground Water	12/15/11 14:00	12/17/11 08:15
NVL2728-03	MW-2	Ground Water	12/15/11 14:30	12/17/11 08:15
NVL2728-04	MW-1	Ground Water	12/15/11 15:00	12/17/11 08:15
NVL2728-05	MW-5	Ground Water	12/15/11 15:30	12/17/11 08:15

Definitions/Glossary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
R2	The RPD exceeded the acceptance limit.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
P-HS	Sample container contained headspace.

Pesticides

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-4

Lab Sample ID: NVL2728-01

Date Collected: 12/15/11 13:30

Matrix: Ground Water

Date Received: 12/17/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1-Methylnaphthalene	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
2-Methylnaphthalene	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Benzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Bromobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Bromochloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Bromodichloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Bromoform	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Bromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
2-Butanone	ND		50.0		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
sec-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
n-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
tert-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Carbon disulfide	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Carbon Tetrachloride	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Chlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Chlorodibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Chloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Chloroform	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Chloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
2-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
4-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Dibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,1-Dichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,2-Dichloroethane	6.62		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,1-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,3-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
2,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,1-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Ethylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Hexachlorobutadiene	ND		2.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
2-Hexanone	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Isopropylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
p-Isopropyltoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Methyl tert-Butyl Ether	18.6		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Methylene Chloride	ND		5.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Naphthalene	ND		5.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
n-Propylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-4

Lab Sample ID: NVL2728-01

Date Collected: 12/15/11 13:30

Matrix: Ground Water

Date Received: 12/17/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Tetrachloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Toluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Trichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Trichlorofluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Vinyl chloride	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00
Xylenes, total	ND		3.00		ug/L		12/19/11 16:36	12/20/11 00:03	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	105		70 - 130	12/19/11 16:36	12/20/11 00:03	1.00
Dibromofluoromethane	108		70 - 130	12/19/11 16:36	12/20/11 00:03	1.00
Toluene-d8	97		70 - 130	12/19/11 16:36	12/20/11 00:03	1.00
4-Bromofluorobenzene	92		70 - 130	12/19/11 16:36	12/20/11 00:03	1.00

Method: EPA 504.1 - EDB and DBCP by EPA Method 504.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.01994		ug/L		12/27/11 11:00	12/27/11 18:36	1.000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene [2C]	149		50 - 150	12/27/11 11:00	12/27/11 18:36	1.000

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-3

Lab Sample ID: NVL2728-02

Date Collected: 12/15/11 14:00

Matrix: Ground Water

Date Received: 12/17/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1-Methylnaphthalene	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
2-Methylnaphthalene	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Benzene	49.9		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Bromobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Bromochloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Bromodichloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Bromoform	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Bromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
2-Butanone	ND		50.0		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
sec-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
n-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
tert-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Carbon disulfide	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Carbon Tetrachloride	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Chlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Chlorodibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Chloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Chloroform	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Chloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
2-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
4-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Dibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,1-Dichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,2-Dichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,1-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,3-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
2,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,1-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Ethylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Hexachlorobutadiene	ND		2.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
2-Hexanone	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Isopropylbenzene	1.13		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
p-Isopropyltoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Methyl tert-Butyl Ether	60.4		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Methylene Chloride	ND		5.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Naphthalene	ND		5.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
n-Propylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-3

Lab Sample ID: NVL2728-02

Date Collected: 12/15/11 14:00

Matrix: Ground Water

Date Received: 12/17/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Tetrachloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Toluene	1.31		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Trichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Trichlorofluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Vinyl chloride	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00
Xylenes, total	6.45		3.00		ug/L		12/19/11 16:36	12/20/11 00:31	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	111		70 - 130	12/19/11 16:36	12/20/11 00:31	1.00
Dibromofluoromethane	111		70 - 130	12/19/11 16:36	12/20/11 00:31	1.00
Toluene-d8	98		70 - 130	12/19/11 16:36	12/20/11 00:31	1.00
4-Bromofluorobenzene	90		70 - 130	12/19/11 16:36	12/20/11 00:31	1.00

Method: EPA 504.1 - EDB and DBCP by EPA Method 504.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.02000		ug/L		12/27/11 11:00	12/27/11 18:52	1.000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	62		50 - 150	12/27/11 11:00	12/27/11 18:52	1.000

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-2

Date Collected: 12/15/11 14:30

Date Received: 12/17/11 08:15

Lab Sample ID: NVL2728-03

Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1-Methylnaphthalene	11.1		10.0		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
2-Methylnaphthalene	21.3		10.0		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Bromobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Bromochloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Bromodichloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Bromoform	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Bromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
2-Butanone	ND		50.0		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
sec-Butylbenzene	2.02		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
n-Butylbenzene	14.4		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
tert-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Carbon disulfide	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Carbon Tetrachloride	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Chlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Chlorodibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Chloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Chloroform	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Chloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
2-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
4-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Dibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,1-Dichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,2-Dichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,1-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,3-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
2,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,1-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Ethylbenzene	4.04		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Hexachlorobutadiene	ND		2.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
2-Hexanone	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Isopropylbenzene	10.1		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
p-Isopropyltoluene	1.64		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Methylene Chloride	ND		5.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Naphthalene	5.01		5.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
n-Propylbenzene	10.1		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Styrene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-2

Lab Sample ID: NVL2728-03

Date Collected: 12/15/11 14:30

Matrix: Ground Water

Date Received: 12/17/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Tetrachloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Toluene	53.1		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Trichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Trichlorofluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,3,5-Trimethylbenzene	57.9		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
1,2,4-Trimethylbenzene	98.9		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Vinyl chloride	ND		1.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00
Xylenes, total	167		3.00		ug/L		12/19/11 16:36	12/20/11 00:59	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	114		70 - 130	12/19/11 16:36	12/20/11 00:59	1.00
Dibromofluoromethane	107		70 - 130	12/19/11 16:36	12/20/11 00:59	1.00
Toluene-d8	99		70 - 130	12/19/11 16:36	12/20/11 00:59	1.00
4-Bromofluorobenzene	88		70 - 130	12/19/11 16:36	12/20/11 00:59	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1340	P-HS	20.0		ug/L		12/20/11 16:58	12/21/11 02:53	20.0
Methyl tert-Butyl Ether	427	P-HS	20.0		ug/L		12/20/11 16:58	12/21/11 02:53	20.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	92		70 - 130	12/20/11 16:58	12/21/11 02:53	20.0
Dibromofluoromethane	94		70 - 130	12/20/11 16:58	12/21/11 02:53	20.0
Toluene-d8	102		70 - 130	12/20/11 16:58	12/21/11 02:53	20.0
4-Bromofluorobenzene	104		70 - 130	12/20/11 16:58	12/21/11 02:53	20.0

Method: EPA 504.1 - EDB and DBCP by EPA Method 504.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.02006		ug/L		12/27/11 11:00	12/27/11 19:07	1.000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	60		50 - 150	12/27/11 11:00	12/27/11 19:07	1.000

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-1

Lab Sample ID: NVL2728-04

Date Collected: 12/15/11 15:00

Matrix: Ground Water

Date Received: 12/17/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1-Methylnaphthalene	46.0		10.0		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
2-Methylnaphthalene	81.5		10.0		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Bromobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Bromochloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Bromodichloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Bromoform	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Bromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
2-Butanone	ND		50.0		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
sec-Butylbenzene	3.87		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
n-Butylbenzene	25.8		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
tert-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Carbon disulfide	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Carbon Tetrachloride	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Chlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Chlorodibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Chloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Chloroform	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Chloromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
2-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
4-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Dibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,1-Dichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,2-Dichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,1-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,3-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
2,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,1-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Ethylbenzene	147		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Hexachlorobutadiene	ND		2.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
2-Hexanone	ND		10.0		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Isopropylbenzene	22.5		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
p-Isopropyltoluene	2.71		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Methylene Chloride	ND		5.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Naphthalene	130		5.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
n-Propylbenzene	52.9		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Styrene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-1

Date Collected: 12/15/11 15:00

Date Received: 12/17/11 08:15

Lab Sample ID: NVL2728-04

Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Tetrachloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Trichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Trichlorofluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
1,3,5-Trimethylbenzene	169		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00
Vinyl chloride	ND		1.00		ug/L		12/19/11 16:36	12/20/11 01:27	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	114		70 - 130	12/19/11 16:36	12/20/11 01:27	1.00
Dibromofluoromethane	113		70 - 130	12/19/11 16:36	12/20/11 01:27	1.00
Toluene-d8	98		70 - 130	12/19/11 16:36	12/20/11 01:27	1.00
4-Bromofluorobenzene	99		70 - 130	12/19/11 16:36	12/20/11 01:27	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3900	P-HS	50.0		ug/L		12/20/11 16:58	12/21/11 03:21	50.0
Methyl tert-Butyl Ether	2360	P-HS	50.0		ug/L		12/20/11 16:58	12/21/11 03:21	50.0
Toluene	262	P-HS	50.0		ug/L		12/20/11 16:58	12/21/11 03:21	50.0
1,2,4-Trimethylbenzene	508	P-HS	50.0		ug/L		12/20/11 16:58	12/21/11 03:21	50.0
Xylenes, total	2400	P-HS	150		ug/L		12/20/11 16:58	12/21/11 03:21	50.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	91		70 - 130	12/20/11 16:58	12/21/11 03:21	50.0
Dibromofluoromethane	94		70 - 130	12/20/11 16:58	12/21/11 03:21	50.0
Toluene-d8	103		70 - 130	12/20/11 16:58	12/21/11 03:21	50.0
4-Bromofluorobenzene	106		70 - 130	12/20/11 16:58	12/21/11 03:21	50.0

Method: EPA 504.1 - EDB and DBCP by EPA Method 504.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.02006		ug/L		12/27/11 11:00	12/27/11 19:23	1.000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	69		50 - 150	12/27/11 11:00	12/27/11 19:23	1.000

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-5

Lab Sample ID: NVL2728-05

Date Collected: 12/15/11 15:30

Matrix: Ground Water

Date Received: 12/17/11 08:15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	P-HS	50.0		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Bromobenzene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Bromochloromethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Bromodichloromethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Bromoform	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Bromomethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
2-Butanone	ND	P-HS	50.0		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
sec-Butylbenzene	5.95	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
n-Butylbenzene	55.8	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
tert-Butylbenzene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Carbon disulfide	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Carbon Tetrachloride	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Chlorobenzene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Chlorodibromomethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Chloroethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Chloroform	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Chloromethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
2-Chlorotoluene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
4-Chlorotoluene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,2-Dibromo-3-chloropropane	ND	P-HS	10.0		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,2-Dibromoethane (EDB)	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Dibromomethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,4-Dichlorobenzene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,3-Dichlorobenzene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,2-Dichlorobenzene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Dichlorodifluoromethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,1-Dichloroethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,2-Dichloroethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
cis-1,2-Dichloroethene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,1-Dichloroethene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
trans-1,2-Dichloroethene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,3-Dichloropropane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,2-Dichloropropane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
2,2-Dichloropropane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
cis-1,3-Dichloropropene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
trans-1,3-Dichloropropene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,1-Dichloropropene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Hexachlorobutadiene	ND	P-HS	2.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
2-Hexanone	ND	P-HS	10.0		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Isopropylbenzene	27.3	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
p-Isopropyltoluene	4.95	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Methyl tert-Butyl Ether	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Methylene Chloride	ND	P-HS	5.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
4-Methyl-2-pentanone	ND	P-HS	10.0		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
n-Propylbenzene	113	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Styrene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,1,1,2-Tetrachloroethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,1,2,2-Tetrachloroethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Tetrachloroethene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,2,3-Trichlorobenzene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00

Client Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-5

Date Collected: 12/15/11 15:30

Date Received: 12/17/11 08:15

Lab Sample ID: NVL2728-05

Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,1,2-Trichloroethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,1,1-Trichloroethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Trichloroethene	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Trichlorofluoromethane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
1,2,3-Trichloropropane	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Vinyl chloride	ND	P-HS	1.00		ug/L		12/20/11 16:58	12/21/11 00:05	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	103		70 - 130				12/20/11 16:58	12/21/11 00:05	1.00
Dibromofluoromethane	109		70 - 130				12/20/11 16:58	12/21/11 00:05	1.00
Toluene-d8	101		70 - 130				12/20/11 16:58	12/21/11 00:05	1.00
4-Bromofluorobenzene	106		70 - 130				12/20/11 16:58	12/21/11 00:05	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1830	P-HS	500		ug/L		12/21/11 17:45	12/21/11 22:53	50.0
2-Methylnaphthalene	3580	P-HS	500		ug/L		12/21/11 17:45	12/21/11 22:53	50.0
Benzene	678	P-HS	50.0		ug/L		12/21/11 17:45	12/21/11 22:53	50.0
Ethylbenzene	1560	P-HS	50.0		ug/L		12/21/11 17:45	12/21/11 22:53	50.0
Naphthalene	1760	P-HS	250		ug/L		12/21/11 17:45	12/21/11 22:53	50.0
Toluene	2520	P-HS	50.0		ug/L		12/21/11 17:45	12/21/11 22:53	50.0
1,3,5-Trimethylbenzene	2530	P-HS	50.0		ug/L		12/21/11 17:45	12/21/11 22:53	50.0
1,2,4-Trimethylbenzene	7080	P-HS	50.0		ug/L		12/21/11 17:45	12/21/11 22:53	50.0
Xylenes, total	10700	P-HS	150		ug/L		12/21/11 17:45	12/21/11 22:53	50.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	92		70 - 130				12/21/11 17:45	12/21/11 22:53	50.0
Dibromofluoromethane	92		70 - 130				12/21/11 17:45	12/21/11 22:53	50.0
Toluene-d8	129		70 - 130				12/21/11 17:45	12/21/11 22:53	50.0
4-Bromofluorobenzene	102		70 - 130				12/21/11 17:45	12/21/11 22:53	50.0

Method: EPA 504.1 - EDB and DBCP by EPA Method 504.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.02029		ug/L		12/27/11 11:00	12/27/11 19:39	1.000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	80		50 - 150				12/27/11 11:00	12/27/11 19:39	1.000

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11L5016-BLK1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1-Methylnaphthalene	ND		10.0		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
2-Methylnaphthalene	ND		10.0		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Benzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Bromobenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Bromochloromethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Bromodichloromethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Bromoform	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Bromomethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
2-Butanone	ND		50.0		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
sec-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
n-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
tert-Butylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Carbon disulfide	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Carbon Tetrachloride	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Chlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Chlorodibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Chloroethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Chloroform	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Chloromethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
2-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
4-Chlorotoluene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Dibromomethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,1-Dichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,2-Dichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,1-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,3-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
2,2-Dichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,1-Dichloropropene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Ethylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Hexachlorobutadiene	ND		2.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
2-Hexanone	ND		10.0		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Isopropylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
p-Isopropyltoluene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Methylene Chloride	ND		5.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Naphthalene	ND		5.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5016-BLK1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Styrene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Tetrachloroethene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Toluene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Trichloroethene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Trichlorofluoromethane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Vinyl chloride	ND		1.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00
Xylenes, total	ND		3.00		ug/L		12/19/11 16:36	12/19/11 19:24	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	108		70 - 130	12/19/11 16:36	12/19/11 19:24	1.00
Dibromofluoromethane	109		70 - 130	12/19/11 16:36	12/19/11 19:24	1.00
Toluene-d8	96		70 - 130	12/19/11 16:36	12/19/11 19:24	1.00
4-Bromofluorobenzene	91		70 - 130	12/19/11 16:36	12/19/11 19:24	1.00

Lab Sample ID: 11L5016-BS1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	250	319		ug/L		127	54 - 145
1-Methylnaphthalene	50.0	45.0		ug/L		90	70 - 130
2-Methylnaphthalene	50.0	40.6		ug/L		81	35 - 150
Benzene	50.0	47.8		ug/L		96	80 - 121
Bromobenzene	50.0	44.0		ug/L		88	68 - 130
Bromochloromethane	50.0	54.1		ug/L		108	78 - 129
Bromodichloromethane	50.0	48.4		ug/L		97	75 - 129
Bromoform	50.0	43.7		ug/L		87	46 - 145
Bromomethane	50.0	40.9		ug/L		82	41 - 150
2-Butanone	250	259		ug/L		103	62 - 133
sec-Butylbenzene	50.0	48.2		ug/L		96	76 - 128
n-Butylbenzene	50.0	50.7		ug/L		101	68 - 132
tert-Butylbenzene	50.0	48.1		ug/L		96	76 - 126
Carbon disulfide	50.0	45.0		ug/L		90	77 - 126
Carbon Tetrachloride	50.0	56.0		ug/L		112	64 - 147
Chlorobenzene	50.0	48.8		ug/L		98	80 - 120
Chlorodibromomethane	50.0	52.9		ug/L		106	69 - 133
Chloroethane	50.0	42.3		ug/L		85	72 - 120
Chloroform	50.0	51.1		ug/L		102	73 - 129
Chloromethane	50.0	27.4		ug/L		55	12 - 150

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5016-BS1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	50.0	45.6		ug/L		91	75 - 126
4-Chlorotoluene	50.0	47.1		ug/L		94	75 - 130
1,2-Dibromo-3-chloropropane	50.0	43.3		ug/L		87	54 - 125
1,2-Dibromoethane (EDB)	50.0	49.0		ug/L		98	80 - 129
Dibromomethane	50.0	49.2		ug/L		98	71 - 125
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120
1,3-Dichlorobenzene	50.0	48.3		ug/L		97	80 - 122
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 121
Dichlorodifluoromethane	50.0	42.1		ug/L		84	37 - 127
1,1-Dichloroethane	50.0	48.3		ug/L		97	78 - 125
1,2-Dichloroethane	50.0	51.7		ug/L		103	77 - 121
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	76 - 125
1,1-Dichloroethene	50.0	52.5		ug/L		105	79 - 124
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	79 - 126
1,3-Dichloropropane	50.0	46.3		ug/L		93	80 - 125
1,2-Dichloropropane	50.0	42.2		ug/L		84	75 - 120
2,2-Dichloropropane	50.0	53.8		ug/L		108	43 - 161
cis-1,3-Dichloropropene	50.0	46.6		ug/L		93	74 - 140
trans-1,3-Dichloropropene	50.0	45.6		ug/L		91	63 - 134
1,1-Dichloropropene	50.0	50.0		ug/L		100	80 - 122
Ethylbenzene	50.0	47.0		ug/L		94	80 - 130
Hexachlorobutadiene	50.0	46.6		ug/L		93	49 - 146
2-Hexanone	250	236		ug/L		94	60 - 142
Isopropylbenzene	50.0	50.4		ug/L		101	80 - 141
p-Isopropyltoluene	50.0	49.1		ug/L		98	75 - 128
Methyl tert-Butyl Ether	50.0	43.2		ug/L		86	72 - 133
Methylene Chloride	50.0	52.9		ug/L		106	79 - 123
4-Methyl-2-pentanone	250	222		ug/L		89	60 - 137
Naphthalene	50.0	46.8		ug/L		94	62 - 138
n-Propylbenzene	50.0	46.6		ug/L		93	75 - 129
Styrene	50.0	46.1		ug/L		92	80 - 127
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	74 - 135
1,1,1,2,2-Tetrachloroethane	50.0	43.1		ug/L		86	69 - 131
Tetrachloroethene	50.0	50.9		ug/L		102	80 - 126
Toluene	50.0	47.0		ug/L		94	80 - 126
1,2,3-Trichlorobenzene	50.0	50.2		ug/L		100	62 - 133
1,2,4-Trichlorobenzene	50.0	48.8		ug/L		98	63 - 133
1,1,2-Trichloroethane	50.0	49.0		ug/L		98	80 - 124
1,1,1-Trichloroethane	50.0	52.4		ug/L		105	78 - 135
Trichloroethene	50.0	52.1		ug/L		104	80 - 123
Trichlorofluoromethane	50.0	53.7		ug/L		107	65 - 124
1,2,3-Trichloropropane	50.0	45.2		ug/L		90	70 - 131
1,3,5-Trimethylbenzene	50.0	48.2		ug/L		96	77 - 127
1,2,4-Trimethylbenzene	50.0	47.5		ug/L		95	77 - 126
Vinyl chloride	50.0	43.9		ug/L		88	68 - 120
Xylenes, total	150	143		ug/L		95	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4	92		70 - 130

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5016-BS1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L5016_P

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	98		70 - 130
Toluene-d8	102		70 - 130
4-Bromofluorobenzene	102		70 - 130

Lab Sample ID: 11L5016-BSD1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	316		ug/L		126	54 - 145	0.7	21
1-Methylnaphthalene	50.0	40.1		ug/L		80	70 - 130	11	30
2-Methylnaphthalene	50.0	43.1		ug/L		86	35 - 150	6	50
Benzene	50.0	47.9		ug/L		96	80 - 121	0.4	17
Bromobenzene	50.0	45.0		ug/L		90	68 - 130	2	20
Bromochloromethane	50.0	54.2		ug/L		108	78 - 129	0.3	17
Bromodichloromethane	50.0	48.5		ug/L		97	75 - 129	0.2	18
Bromoform	50.0	44.6		ug/L		89	46 - 145	2	16
Bromomethane	50.0	41.4		ug/L		83	41 - 150	1	50
2-Butanone	250	260		ug/L		104	62 - 133	0.5	19
sec-Butylbenzene	50.0	48.8		ug/L		98	76 - 128	1	16
n-Butylbenzene	50.0	52.0		ug/L		104	68 - 132	3	18
tert-Butylbenzene	50.0	48.8		ug/L		98	76 - 126	1	16
Carbon disulfide	50.0	45.0		ug/L		90	77 - 126	0.02	21
Carbon Tetrachloride	50.0	56.1		ug/L		112	64 - 147	0.09	19
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120	1	14
Chlorodibromomethane	50.0	53.0		ug/L		106	69 - 133	0.09	15
Chloroethane	50.0	42.6		ug/L		85	72 - 120	0.6	20
Chloroform	50.0	51.1		ug/L		102	73 - 129	0.08	18
Chloromethane	50.0	27.7		ug/L		55	12 - 150	1	31
2-Chlorotoluene	50.0	46.4		ug/L		93	75 - 126	2	17
4-Chlorotoluene	50.0	47.7		ug/L		95	75 - 130	1	18
1,2-Dibromo-3-chloropropane	50.0	44.0		ug/L		88	54 - 125	2	24
1,2-Dibromoethane (EDB)	50.0	50.0		ug/L		100	80 - 129	2	15
Dibromomethane	50.0	49.2		ug/L		98	71 - 125	0.1	16
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120	1	15
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 122	2	15
1,2-Dichlorobenzene	50.0	52.4		ug/L		105	80 - 121	4	15
Dichlorodifluoromethane	50.0	42.3		ug/L		85	37 - 127	0.5	18
1,1-Dichloroethane	50.0	48.5		ug/L		97	78 - 125	0.5	17
1,2-Dichloroethane	50.0	51.9		ug/L		104	77 - 121	0.3	17
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	76 - 125	0.1	17
1,1-Dichloroethene	50.0	51.5		ug/L		103	79 - 124	2	17
trans-1,2-Dichloroethene	50.0	49.0		ug/L		98	79 - 126	0.2	16
1,3-Dichloropropane	50.0	47.5		ug/L		95	80 - 125	2	14
1,2-Dichloropropane	50.0	42.8		ug/L		86	75 - 120	1	17
2,2-Dichloropropane	50.0	52.5		ug/L		105	43 - 161	2	18
cis-1,3-Dichloropropene	50.0	47.4		ug/L		95	74 - 140	2	15
trans-1,3-Dichloropropene	50.0	46.5		ug/L		93	63 - 134	2	14
1,1-Dichloropropene	50.0	49.6		ug/L		99	80 - 122	0.9	17

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5016-BSD1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	50.0	47.8		ug/L		96	80 - 130	2	15
Hexachlorobutadiene	50.0	47.6		ug/L		95	49 - 146	2	23
2-Hexanone	250	241		ug/L		96	60 - 142	2	15
Isopropylbenzene	50.0	51.1		ug/L		102	80 - 141	1	16
p-Isopropyltoluene	50.0	49.1		ug/L		98	75 - 128	0	16
Methyl tert-Butyl Ether	50.0	43.4		ug/L		87	72 - 133	0.6	16
Methylene Chloride	50.0	52.6		ug/L		105	79 - 123	0.6	17
4-Methyl-2-pentanone	250	230		ug/L		92	60 - 137	3	17
Naphthalene	50.0	48.0		ug/L		96	62 - 138	2	26
n-Propylbenzene	50.0	46.9		ug/L		94	75 - 129	0.6	17
Styrene	50.0	47.0		ug/L		94	80 - 127	2	24
1,1,1,2-Tetrachloroethane	50.0	50.6		ug/L		101	74 - 135	0.8	16
1,1,2,2-Tetrachloroethane	50.0	43.8		ug/L		88	69 - 131	2	20
Tetrachloroethene	50.0	51.1		ug/L		102	80 - 126	0.4	16
Toluene	50.0	47.8		ug/L		96	80 - 126	2	15
1,2,3-Trichlorobenzene	50.0	51.6		ug/L		103	62 - 133	3	25
1,2,4-Trichlorobenzene	50.0	50.7		ug/L		101	63 - 133	4	19
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	80 - 124	2	15
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	78 - 135	0.8	17
Trichloroethene	50.0	52.2		ug/L		104	80 - 123	0.1	17
Trichlorofluoromethane	50.0	53.4		ug/L		107	65 - 124	0.5	18
1,2,3-Trichloropropane	50.0	46.4		ug/L		93	70 - 131	3	19
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	77 - 127	0.8	17
1,2,4-Trimethylbenzene	50.0	48.7		ug/L		97	77 - 126	2	16
Vinyl chloride	50.0	43.6		ug/L		87	68 - 120	0.6	17
Xylenes, total	150	144		ug/L		96	80 - 132	0.6	15

Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits
1,2-Dichloroethane-d4	92		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8	103		70 - 130
4-Bromofluorobenzene	102		70 - 130

Lab Sample ID: 11L5016-MS1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		2500	2560		ug/L		103	45 - 141
2-Methylnaphthalene	ND		500	423		ug/L		85	24 - 155
Benzene	ND		500	508		ug/L		102	75 - 133
Bromobenzene	ND		500	474		ug/L		95	60 - 138
Bromochloromethane	ND		500	547		ug/L		109	67 - 139
Bromodichloromethane	ND		500	489		ug/L		98	70 - 140
Bromoform	ND		500	441		ug/L		88	42 - 147
Bromomethane	ND		500	400		ug/L		80	16 - 163
2-Butanone	ND		2500	2360		ug/L		94	50 - 138
sec-Butylbenzene	ND		500	532		ug/L		106	73 - 138
n-Butylbenzene	8.20		500	545		ug/L		107	66 - 141

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5016-MS1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
tert-Butylbenzene	ND		500	533		ug/L		107	70 - 138
Carbon disulfide	ND		500	475		ug/L		95	48 - 152
Carbon Tetrachloride	ND		500	580		ug/L		116	62 - 164
Chlorobenzene	ND		500	520		ug/L		104	80 - 129
Chlorodibromomethane	ND		500	536		ug/L		107	66 - 140
Chloroethane	ND		500	457		ug/L		91	58 - 137
Chloroform	ND		500	521		ug/L		104	66 - 138
Chloromethane	ND		500	288		ug/L		58	10 - 169
2-Chlorotoluene	ND		500	513		ug/L		103	67 - 138
4-Chlorotoluene	ND		500	509		ug/L		102	69 - 138
1,2-Dibromo-3-chloropropane	ND		500	488		ug/L		98	52 - 126
1,2-Dibromoethane (EDB)	ND		500	513		ug/L		103	75 - 137
Dibromomethane	ND		500	490		ug/L		98	58 - 140
1,4-Dichlorobenzene	ND		500	518		ug/L		104	78 - 126
1,3-Dichlorobenzene	ND		500	514		ug/L		103	77 - 131
1,2-Dichlorobenzene	ND		500	528		ug/L		106	79 - 128
Dichlorodifluoromethane	ND		500	408		ug/L		82	40 - 127
1,1-Dichloroethane	ND		500	509		ug/L		102	71 - 139
1,2-Dichloroethane	ND		500	511		ug/L		102	64 - 136
cis-1,2-Dichloroethene	ND		500	504		ug/L		101	68 - 138
1,1-Dichloroethene	ND		500	560		ug/L		112	70 - 142
trans-1,2-Dichloroethene	ND		500	519		ug/L		104	66 - 143
1,3-Dichloropropane	ND		500	490		ug/L		98	72 - 134
1,2-Dichloropropane	ND		500	446		ug/L		89	67 - 131
2,2-Dichloropropane	ND		500	505		ug/L		101	37 - 175
cis-1,3-Dichloropropene	ND		500	494		ug/L		99	71 - 141
trans-1,3-Dichloropropene	ND		500	476		ug/L		95	59 - 135
1,1-Dichloropropene	ND		500	534		ug/L		107	76 - 139
Ethylbenzene	144		500	649		ug/L		101	79 - 139
Hexachlorobutadiene	ND		500	458		ug/L		92	45 - 155
2-Hexanone	ND		2500	2400		ug/L		96	50 - 150
Isopropylbenzene	34.9		500	579		ug/L		109	80 - 153
p-Isopropyltoluene	ND		500	525		ug/L		105	71 - 137
Methyl tert-Butyl Ether	17.8		500	491		ug/L		95	66 - 141
Methylene Chloride	ND		500	540		ug/L		108	64 - 139
4-Methyl-2-pentanone	ND		2500	2380		ug/L		95	50 - 147
Naphthalene	55.9		500	568		ug/L		102	55 - 140
n-Propylbenzene	49.1		500	561		ug/L		102	69 - 142
Styrene	ND		500	495		ug/L		99	61 - 148
1,1,1,2-Tetrachloroethane	ND		500	524		ug/L		105	73 - 141
1,1,2,2-Tetrachloroethane	ND		500	456		ug/L		91	56 - 143
Tetrachloroethene	ND		500	542		ug/L		108	72 - 145
Toluene	7.40		500	524		ug/L		103	75 - 136
1,2,3-Trichlorobenzene	ND		500	502		ug/L		100	55 - 138
1,2,4-Trichlorobenzene	ND		500	519		ug/L		104	60 - 136
1,1,2-Trichloroethane	ND		500	524		ug/L		105	74 - 134
1,1,1-Trichloroethane	ND		500	548		ug/L		110	76 - 149
Trichloroethene	ND		500	552		ug/L		110	73 - 144
Trichlorofluoromethane	ND		500	548		ug/L		110	58 - 139
1,2,3-Trichloropropane	ND		500	482		ug/L		96	53 - 144

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5016-MS1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	72.6		500	595		ug/L		104	69 - 139
1,2,4-Trimethylbenzene	250		500	756		ug/L		101	69 - 136
Vinyl chloride	ND		500	459		ug/L		92	56 - 129
Xylenes, total	229		1500	1740		ug/L		100	74 - 141

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Matrix Spike Limits
1,2-Dichloroethane-d4	98		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8	99		70 - 130
4-Bromofluorobenzene	95		70 - 130

Lab Sample ID: 11L5016-MSD1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		2500	2440		ug/L		98	45 - 141	5	21
2-Methylnaphthalene	ND		500	512		ug/L		102	24 - 155	19	50
Benzene	ND		500	486		ug/L		97	75 - 133	4	17
Bromobenzene	ND		500	440		ug/L		88	60 - 138	7	20
Bromochloromethane	ND		500	520		ug/L		104	67 - 139	5	17
Bromodichloromethane	ND		500	472		ug/L		94	70 - 140	3	18
Bromoform	ND		500	416		ug/L		83	42 - 147	6	16
Bromomethane	ND		500	408		ug/L		82	16 - 163	2	50
2-Butanone	ND		2500	2310		ug/L		92	50 - 138	2	19
sec-Butylbenzene	ND		500	496		ug/L		99	73 - 138	7	16
n-Butylbenzene	8.20		500	517		ug/L		102	66 - 141	5	18
tert-Butylbenzene	ND		500	494		ug/L		99	70 - 138	8	16
Carbon disulfide	ND		500	457		ug/L		91	48 - 152	4	21
Carbon Tetrachloride	ND		500	559		ug/L		112	62 - 164	4	19
Chlorobenzene	ND		500	494		ug/L		99	80 - 129	5	14
Chlorodibromomethane	ND		500	509		ug/L		102	66 - 140	5	15
Chloroethane	ND		500	434		ug/L		87	58 - 137	5	20
Chloroform	ND		500	502		ug/L		100	66 - 138	4	18
Chloromethane	ND		500	277		ug/L		55	10 - 169	4	31
2-Chlorotoluene	ND		500	476		ug/L		95	67 - 138	7	17
4-Chlorotoluene	ND		500	477		ug/L		95	69 - 138	7	18
1,2-Dibromo-3-chloropropane	ND		500	463		ug/L		93	52 - 126	5	24
1,2-Dibromoethane (EDB)	ND		500	483		ug/L		97	75 - 137	6	15
Dibromomethane	ND		500	464		ug/L		93	58 - 140	5	16
1,4-Dichlorobenzene	ND		500	499		ug/L		100	78 - 126	4	15
1,3-Dichlorobenzene	ND		500	479		ug/L		96	77 - 131	7	15
1,2-Dichlorobenzene	ND		500	493		ug/L		99	79 - 128	7	15
Dichlorodifluoromethane	ND		500	394		ug/L		79	40 - 127	4	18
1,1-Dichloroethane	ND		500	485		ug/L		97	71 - 139	5	17
1,2-Dichloroethane	ND		500	490		ug/L		98	64 - 136	4	17
cis-1,2-Dichloroethene	ND		500	482		ug/L		96	68 - 138	5	17
1,1-Dichloroethene	ND		500	531		ug/L		106	70 - 142	5	17
trans-1,2-Dichloroethene	ND		500	502		ug/L		100	66 - 143	3	16

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5016-MSD1

Matrix: Water

Analysis Batch: U022256

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 11L5016_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane	ND		500	464		ug/L		93	72 - 134	5	14
1,2-Dichloropropane	ND		500	429		ug/L		86	67 - 131	4	17
2,2-Dichloropropane	ND		500	486		ug/L		97	37 - 175	4	18
cis-1,3-Dichloropropene	ND		500	467		ug/L		93	71 - 141	6	15
trans-1,3-Dichloropropene	ND		500	457		ug/L		91	59 - 135	4	14
1,1-Dichloropropene	ND		500	514		ug/L		103	76 - 139	4	17
Ethylbenzene	144		500	619		ug/L		95	79 - 139	5	15
Hexachlorobutadiene	ND		500	450		ug/L		90	45 - 155	2	23
2-Hexanone	ND		2500	2280		ug/L		91	50 - 150	5	15
Isopropylbenzene	34.9		500	556		ug/L		104	80 - 153	4	16
p-Isopropyltoluene	ND		500	507		ug/L		101	71 - 137	3	16
Methyl tert-Butyl Ether	17.8		500	470		ug/L		90	66 - 141	4	16
Methylene Chloride	ND		500	519		ug/L		104	64 - 139	4	17
4-Methyl-2-pentanone	ND		2500	2240		ug/L		90	50 - 147	6	17
Naphthalene	55.9		500	547		ug/L		98	55 - 140	4	26
n-Propylbenzene	49.1		500	519		ug/L		94	69 - 142	8	17
Styrene	ND		500	468		ug/L		94	61 - 148	6	24
1,1,1,2-Tetrachloroethane	ND		500	496		ug/L		99	73 - 141	5	16
1,1,2,2-Tetrachloroethane	ND		500	419		ug/L		84	56 - 143	8	20
Tetrachloroethene	ND		500	520		ug/L		104	72 - 145	4	16
Toluene	7.40		500	496		ug/L		98	75 - 136	5	15
1,2,3-Trichlorobenzene	ND		500	499		ug/L		100	55 - 138	0.7	25
1,2,4-Trichlorobenzene	ND		500	500		ug/L		100	60 - 136	4	19
1,1,2-Trichloroethane	ND		500	490		ug/L		98	74 - 134	7	15
1,1,1-Trichloroethane	ND		500	535		ug/L		107	76 - 149	3	17
Trichloroethene	ND		500	537		ug/L		107	73 - 144	3	17
Trichlorofluoromethane	ND		500	518		ug/L		104	58 - 139	6	18
1,2,3-Trichloropropane	ND		500	444		ug/L		89	53 - 144	8	19
1,3,5-Trimethylbenzene	72.6		500	556		ug/L		97	69 - 139	7	17
1,2,4-Trimethylbenzene	250		500	704		ug/L		91	69 - 136	7	16
Vinyl chloride	ND		500	438		ug/L		88	56 - 129	5	17
Xylenes, total	229		1500	1670		ug/L		96	74 - 141	4	15

Surrogate	Matrix Spike Dup %Recovery	Matrix Spike Dup Qualifier	Limits
1,2-Dichloroethane-d4	97		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8	98		70 - 130
4-Bromofluorobenzene	91		70 - 130

Lab Sample ID: 11L5368-BLK1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L5368_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1-Methylnaphthalene	ND		10.0		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
2-Methylnaphthalene	ND		10.0		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Benzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Bromobenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5368-BLK1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L5368_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Bromodichloromethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Bromoform	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Bromomethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
2-Butanone	ND		50.0		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
sec-Butylbenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
n-Butylbenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
tert-Butylbenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Carbon disulfide	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Carbon Tetrachloride	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Chlorobenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Chlorodibromomethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Chloroethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Chloroform	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Chloromethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
2-Chlorotoluene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
4-Chlorotoluene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Dibromomethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,1-Dichloroethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,2-Dichloroethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,1-Dichloroethene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,3-Dichloropropane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,2-Dichloropropane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
2,2-Dichloropropane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,1-Dichloropropene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Ethylbenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Hexachlorobutadiene	ND		2.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
2-Hexanone	ND		10.0		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Isopropylbenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
p-Isopropyltoluene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Methylene Chloride	ND		5.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Naphthalene	ND		5.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
n-Propylbenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Styrene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Tetrachloroethene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Toluene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5368-BLK1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L5368_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Trichloroethene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Trichlorofluoromethane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Vinyl chloride	ND		1.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00
Xylenes, total	ND		3.00		ug/L		12/20/11 16:58	12/20/11 21:18	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	107		70 - 130	12/20/11 16:58	12/20/11 21:18	1.00
Dibromofluoromethane	111		70 - 130	12/20/11 16:58	12/20/11 21:18	1.00
Toluene-d8	97		70 - 130	12/20/11 16:58	12/20/11 21:18	1.00
4-Bromofluorobenzene	94		70 - 130	12/20/11 16:58	12/20/11 21:18	1.00

Lab Sample ID: 11L5368-BS1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L5368_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	250	269		ug/L		107	54 - 145
1-Methylnaphthalene	50.0	40.0		ug/L		80	70 - 130
2-Methylnaphthalene	50.0	26.1		ug/L		52	35 - 150
Benzene	50.0	47.9		ug/L		96	80 - 121
Bromobenzene	50.0	42.9		ug/L		86	68 - 130
Bromochloromethane	50.0	53.4		ug/L		107	78 - 129
Bromodichloromethane	50.0	47.5		ug/L		95	75 - 129
Bromoform	50.0	42.2		ug/L		84	46 - 145
Bromomethane	50.0	38.8		ug/L		78	41 - 150
2-Butanone	250	232		ug/L		93	62 - 133
sec-Butylbenzene	50.0	46.4		ug/L		93	76 - 128
n-Butylbenzene	50.0	47.4		ug/L		95	68 - 132
tert-Butylbenzene	50.0	46.7		ug/L		93	76 - 126
Carbon disulfide	50.0	45.8		ug/L		92	77 - 126
Carbon Tetrachloride	50.0	55.9		ug/L		112	64 - 147
Chlorobenzene	50.0	49.3		ug/L		99	80 - 120
Chlorodibromomethane	50.0	51.1		ug/L		102	69 - 133
Chloroethane	50.0	44.0		ug/L		88	72 - 120
Chloroform	50.0	50.6		ug/L		101	73 - 129
Chloromethane	50.0	25.8		ug/L		52	12 - 150
2-Chlorotoluene	50.0	44.1		ug/L		88	75 - 126
4-Chlorotoluene	50.0	45.7		ug/L		91	75 - 130
1,2-Dibromo-3-chloropropane	50.0	38.6		ug/L		77	54 - 125
1,2-Dibromoethane (EDB)	50.0	48.4		ug/L		97	80 - 129
Dibromomethane	50.0	46.5		ug/L		93	71 - 125
1,4-Dichlorobenzene	50.0	48.9		ug/L		98	80 - 120

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5368-BS1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L5368_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 122
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 121
Dichlorodifluoromethane	50.0	37.1		ug/L		74	37 - 127
1,1-Dichloroethane	50.0	48.6		ug/L		97	78 - 125
1,2-Dichloroethane	50.0	50.6		ug/L		101	77 - 121
cis-1,2-Dichloroethene	50.0	48.7		ug/L		97	76 - 125
1,1-Dichloroethene	50.0	52.7		ug/L		105	79 - 124
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	79 - 126
1,3-Dichloropropane	50.0	46.9		ug/L		94	80 - 125
1,2-Dichloropropane	50.0	41.9		ug/L		84	75 - 120
2,2-Dichloropropane	50.0	52.0		ug/L		104	43 - 161
cis-1,3-Dichloropropene	50.0	46.8		ug/L		94	74 - 140
trans-1,3-Dichloropropene	50.0	45.3		ug/L		91	63 - 134
1,1-Dichloropropene	50.0	50.2		ug/L		100	80 - 122
Ethylbenzene	50.0	47.8		ug/L		96	80 - 130
Hexachlorobutadiene	50.0	41.0		ug/L		82	49 - 146
2-Hexanone	250	217		ug/L		87	60 - 142
Isopropylbenzene	50.0	50.6		ug/L		101	80 - 141
p-Isopropyltoluene	50.0	49.2		ug/L		98	75 - 128
Methyl tert-Butyl Ether	50.0	43.3		ug/L		87	72 - 133
Methylene Chloride	50.0	52.1		ug/L		104	79 - 123
4-Methyl-2-pentanone	250	214		ug/L		85	60 - 137
Naphthalene	50.0	40.9		ug/L		82	62 - 138
n-Propylbenzene	50.0	45.4		ug/L		91	75 - 129
Styrene	50.0	46.4		ug/L		93	80 - 127
1,1,1,2-Tetrachloroethane	50.0	50.0		ug/L		100	74 - 135
1,1,2,2-Tetrachloroethane	50.0	39.9		ug/L		80	69 - 131
Tetrachloroethene	50.0	50.8		ug/L		102	80 - 126
Toluene	50.0	48.0		ug/L		96	80 - 126
1,2,3-Trichlorobenzene	50.0	44.1		ug/L		88	62 - 133
1,2,4-Trichlorobenzene	50.0	44.5		ug/L		89	63 - 133
1,1,2-Trichloroethane	50.0	48.2		ug/L		96	80 - 124
1,1,1-Trichloroethane	50.0	53.1		ug/L		106	78 - 135
Trichloroethene	50.0	53.0		ug/L		106	80 - 123
Trichlorofluoromethane	50.0	51.3		ug/L		103	65 - 124
1,2,3-Trichloropropane	50.0	42.9		ug/L		86	70 - 131
1,3,5-Trimethylbenzene	50.0	46.8		ug/L		94	77 - 127
1,2,4-Trimethylbenzene	50.0	46.6		ug/L		93	77 - 126
Vinyl chloride	50.0	42.3		ug/L		85	68 - 120
Xylenes, total	150	145		ug/L		96	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4	89		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8	103		70 - 130
4-Bromofluorobenzene	98		70 - 130

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5368-MS1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L5368_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Acetone	ND		25000	24100		ug/L		97	45 - 141
2-Methylnaphthalene	ND		5000	2660		ug/L		53	24 - 155
Benzene	ND		5000	5110		ug/L		102	75 - 133
Bromobenzene	ND		5000	4580		ug/L		92	60 - 138
Bromochloromethane	ND		5000	5670		ug/L		113	67 - 139
Bromodichloromethane	ND		5000	5040		ug/L		101	70 - 140
Bromoform	ND		5000	4490		ug/L		90	42 - 147
Bromomethane	ND		5000	3970		ug/L		79	16 - 163
2-Butanone	ND		25000	23500		ug/L		94	50 - 138
sec-Butylbenzene	ND		5000	5160		ug/L		103	73 - 138
n-Butylbenzene	ND		5000	5240		ug/L		105	66 - 141
tert-Butylbenzene	ND		5000	5160		ug/L		103	70 - 138
Carbon disulfide	ND		5000	4890		ug/L		98	48 - 152
Carbon Tetrachloride	ND		5000	6150		ug/L		123	62 - 164
Chlorobenzene	ND		5000	5160		ug/L		103	80 - 129
Chlorodibromomethane	ND		5000	5320		ug/L		106	66 - 140
Chloroethane	ND		5000	4710		ug/L		94	58 - 137
Chloroform	ND		5000	5420		ug/L		108	66 - 138
Chloromethane	ND		5000	2860		ug/L		57	10 - 169
2-Chlorotoluene	ND		5000	4800		ug/L		96	67 - 138
4-Chlorotoluene	ND		5000	4920		ug/L		98	69 - 138
1,2-Dibromo-3-chloropropane	ND		5000	4160		ug/L		83	52 - 126
1,2-Dibromoethane (EDB)	ND		5000	5030		ug/L		101	75 - 137
Dibromomethane	ND		5000	4980		ug/L		100	58 - 140
1,4-Dichlorobenzene	ND		5000	5060		ug/L		101	78 - 126
1,3-Dichlorobenzene	ND		5000	5010		ug/L		100	77 - 131
1,2-Dichlorobenzene	ND		5000	5190		ug/L		104	79 - 128
Dichlorodifluoromethane	ND		5000	3850		ug/L		77	40 - 127
1,1-Dichloroethane	ND		5000	5160		ug/L		103	71 - 139
1,2-Dichloroethane	ND		5000	5460		ug/L		109	64 - 136
cis-1,2-Dichloroethene	ND		5000	5120		ug/L		102	68 - 138
1,1-Dichloroethene	ND		5000	5660		ug/L		113	70 - 142
trans-1,2-Dichloroethene	ND		5000	5220		ug/L		104	66 - 143
1,3-Dichloropropane	ND		5000	4770		ug/L		95	72 - 134
1,2-Dichloropropane	ND		5000	4450		ug/L		89	67 - 131
2,2-Dichloropropane	ND		5000	5160		ug/L		103	37 - 175
cis-1,3-Dichloropropene	ND		5000	4770		ug/L		95	71 - 141
trans-1,3-Dichloropropene	ND		5000	4590		ug/L		92	59 - 135
1,1-Dichloropropene	ND		5000	5420		ug/L		108	76 - 139
Ethylbenzene	ND		5000	5080		ug/L		102	79 - 139
Hexachlorobutadiene	ND		5000	4530		ug/L		91	45 - 155
2-Hexanone	ND		25000	22100		ug/L		88	50 - 150
Isopropylbenzene	ND		5000	5430		ug/L		109	80 - 153
p-Isopropyltoluene	ND		5000	5160		ug/L		103	71 - 137
Methyl tert-Butyl Ether	8090		5000	12600		ug/L		89	66 - 141
Methylene Chloride	ND		5000	5480		ug/L		110	64 - 139
4-Methyl-2-pentanone	ND		25000	21800		ug/L		87	50 - 147
Naphthalene	ND		5000	4460		ug/L		89	55 - 140
n-Propylbenzene	ND		5000	4950		ug/L		99	69 - 142

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5368-MS1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L5368_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Styrene	ND		5000	4860		ug/L		97	61 - 148
1,1,1,2-Tetrachloroethane	ND		5000	5220		ug/L		104	73 - 141
1,1,2,2-Tetrachloroethane	ND		5000	4290		ug/L		86	56 - 143
Tetrachloroethene	ND		5000	5510		ug/L		110	72 - 145
Toluene	ND		5000	5040		ug/L		101	75 - 136
1,2,3-Trichlorobenzene	ND		5000	4800		ug/L		96	55 - 138
1,2,4-Trichlorobenzene	ND		5000	4800		ug/L		96	60 - 136
1,1,2-Trichloroethane	ND		5000	5000		ug/L		100	74 - 134
1,1,1-Trichloroethane	ND		5000	5740		ug/L		115	76 - 149
Trichloroethene	ND		5000	5630		ug/L		113	73 - 144
Trichlorofluoromethane	ND		5000	5800		ug/L		116	58 - 139
1,2,3-Trichloropropane	ND		5000	4490		ug/L		90	53 - 144
1,3,5-Trimethylbenzene	ND		5000	5110		ug/L		102	69 - 139
1,2,4-Trimethylbenzene	ND		5000	5010		ug/L		100	69 - 136
Vinyl chloride	ND		5000	4510		ug/L		90	56 - 129
Xylenes, total	ND		15000	15300		ug/L		102	74 - 141

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
1,2-Dichloroethane-d4	103		70 - 130
Dibromofluoromethane	110		70 - 130
Toluene-d8	97		70 - 130
4-Bromofluorobenzene	91		70 - 130

Lab Sample ID: 11L5368-MSD1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 11L5368_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	ND		25000	23800		ug/L		95	45 - 141	1	21
2-Methylnaphthalene	ND		5000	3850		ug/L		77	24 - 155	36	50
Benzene	ND		5000	4900		ug/L		98	75 - 133	4	17
Bromobenzene	ND		5000	4380		ug/L		88	60 - 138	4	20
Bromochloromethane	ND		5000	5370		ug/L		107	67 - 139	5	17
Bromodichloromethane	ND		5000	4840		ug/L		97	70 - 140	4	18
Bromoform	ND		5000	4170		ug/L		83	42 - 147	7	16
Bromomethane	ND		5000	3960		ug/L		79	16 - 163	0.2	50
2-Butanone	ND		25000	22900		ug/L		92	50 - 138	2	19
sec-Butylbenzene	ND		5000	4910		ug/L		98	73 - 138	5	16
n-Butylbenzene	ND		5000	5060		ug/L		101	66 - 141	3	18
tert-Butylbenzene	ND		5000	4970		ug/L		99	70 - 138	4	16
Carbon disulfide	ND		5000	4700		ug/L		94	48 - 152	4	21
Carbon Tetrachloride	ND		5000	5850		ug/L		117	62 - 164	5	19
Chlorobenzene	ND		5000	4880		ug/L		98	80 - 129	5	14
Chlorodibromomethane	ND		5000	5110		ug/L		102	66 - 140	4	15
Chloroethane	ND		5000	4350		ug/L		87	58 - 137	8	20
Chloroform	ND		5000	5150		ug/L		103	66 - 138	5	18
Chloromethane	ND		5000	2680		ug/L		54	10 - 169	7	31
2-Chlorotoluene	ND		5000	4580		ug/L		92	67 - 138	5	17
4-Chlorotoluene	ND		5000	4700		ug/L		94	69 - 138	5	18

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5368-MSD1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 11L5368_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane	ND		5000	4180		ug/L		84	52 - 126	0.5	24
1,2-Dibromoethane (EDB)	ND		5000	4810		ug/L		96	75 - 137	5	15
Dibromomethane	ND		5000	4760		ug/L		95	58 - 140	5	16
1,4-Dichlorobenzene	ND		5000	4930		ug/L		99	78 - 126	3	15
1,3-Dichlorobenzene	ND		5000	4760		ug/L		95	77 - 131	5	15
1,2-Dichlorobenzene	ND		5000	4980		ug/L		100	79 - 128	4	15
Dichlorodifluoromethane	ND		5000	3620		ug/L		72	40 - 127	6	18
1,1-Dichloroethane	ND		5000	4930		ug/L		99	71 - 139	5	17
1,2-Dichloroethane	ND		5000	5220		ug/L		104	64 - 136	4	17
cis-1,2-Dichloroethene	ND		5000	4830		ug/L		97	68 - 138	6	17
1,1-Dichloroethene	ND		5000	5360		ug/L		107	70 - 142	5	17
trans-1,2-Dichloroethene	ND		5000	4980		ug/L		100	66 - 143	5	16
1,3-Dichloropropane	ND		5000	4560		ug/L		91	72 - 134	5	14
1,2-Dichloropropane	ND		5000	4250		ug/L		85	67 - 131	5	17
2,2-Dichloropropane	ND		5000	4920		ug/L		98	37 - 175	5	18
cis-1,3-Dichloropropene	ND		5000	4570		ug/L		91	71 - 141	4	15
trans-1,3-Dichloropropene	ND		5000	4470		ug/L		89	59 - 135	3	14
1,1-Dichloropropene	ND		5000	5120		ug/L		102	76 - 139	6	17
Ethylbenzene	ND		5000	4800		ug/L		96	79 - 139	6	15
Hexachlorobutadiene	ND		5000	4580		ug/L		92	45 - 155	1	23
2-Hexanone	ND		25000	21500		ug/L		86	50 - 150	3	15
Isopropylbenzene	ND		5000	5120		ug/L		102	80 - 153	6	16
p-Isopropyltoluene	ND		5000	4950		ug/L		99	71 - 137	4	16
Methyl tert-Butyl Ether	8090		5000	12400		ug/L		86	66 - 141	1	16
Methylene Chloride	ND		5000	5240		ug/L		105	64 - 139	4	17
4-Methyl-2-pentanone	ND		25000	21400		ug/L		86	50 - 147	2	17
Naphthalene	ND		5000	4480		ug/L		90	55 - 140	0.3	26
n-Propylbenzene	ND		5000	4720		ug/L		94	69 - 142	5	17
Styrene	ND		5000	4650		ug/L		93	61 - 148	4	24
1,1,1,2-Tetrachloroethane	ND		5000	5020		ug/L		100	73 - 141	4	16
1,1,1,2,2-Tetrachloroethane	ND		5000	4150		ug/L		83	56 - 143	3	20
Tetrachloroethene	ND		5000	5190		ug/L		104	72 - 145	6	16
Toluene	ND		5000	4820		ug/L		96	75 - 136	5	15
1,2,3-Trichlorobenzene	ND		5000	4860		ug/L		97	55 - 138	1	25
1,2,4-Trichlorobenzene	ND		5000	4640		ug/L		93	60 - 136	4	19
1,1,2-Trichloroethane	ND		5000	4810		ug/L		96	74 - 134	4	15
1,1,1-Trichloroethane	ND		5000	5440		ug/L		109	76 - 149	5	17
Trichloroethene	ND		5000	5360		ug/L		107	73 - 144	5	17
Trichlorofluoromethane	ND		5000	5500		ug/L		110	58 - 139	5	18
1,2,3-Trichloropropane	ND		5000	4360		ug/L		87	53 - 144	3	19
1,3,5-Trimethylbenzene	ND		5000	4820		ug/L		96	69 - 139	6	17
1,2,4-Trimethylbenzene	ND		5000	4740		ug/L		95	69 - 136	6	16
Vinyl chloride	ND		5000	4340		ug/L		87	56 - 129	4	17
Xylenes, total	ND		15000	14500		ug/L		96	74 - 141	5	15

Surrogate	Matrix Spike Dup %Recovery	Matrix Spike Dup Qualifier	Matrix Spike Dup Limits
1,2-Dichloroethane-d4	102		70 - 130
Dibromofluoromethane	109		70 - 130
Toluene-d8	97		70 - 130

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5368-MSD1

Matrix: Water

Analysis Batch: U022766

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 11L5368_P

Surrogate	Matrix Spike Dup %Recovery	Matrix Spike Dup Qualifier	Limits
4-Bromofluorobenzene	92		70 - 130

Lab Sample ID: 11L5598-BLK1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1-Methylnaphthalene	ND		10.0		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
2-Methylnaphthalene	ND		10.0		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Benzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Bromobenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Bromochloromethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Bromodichloromethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Bromoform	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Bromomethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
2-Butanone	ND		50.0		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
sec-Butylbenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
n-Butylbenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
tert-Butylbenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Carbon disulfide	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Carbon Tetrachloride	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Chlorobenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Chlorodibromomethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Chloroethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Chloroform	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Chloromethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
2-Chlorotoluene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
4-Chlorotoluene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Dibromomethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,1-Dichloroethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,2-Dichloroethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,1-Dichloroethene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,3-Dichloropropane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,2-Dichloropropane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
2,2-Dichloropropane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,1-Dichloropropene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Ethylbenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Hexachlorobutadiene	ND		2.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5598-BLK1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10.0		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Isopropylbenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
p-Isopropyltoluene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Methylene Chloride	ND		5.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Naphthalene	ND		5.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
n-Propylbenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Styrene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Tetrachloroethene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Toluene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Trichloroethene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Trichlorofluoromethane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Vinyl chloride	ND		1.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00
Xylenes, total	ND		3.00		ug/L		12/21/11 00:46	12/21/11 20:33	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	94		70 - 130	12/21/11 00:46	12/21/11 20:33	1.00
Dibromofluoromethane	100		70 - 130	12/21/11 00:46	12/21/11 20:33	1.00
Toluene-d8	78		70 - 130	12/21/11 00:46	12/21/11 20:33	1.00
4-Bromofluorobenzene	108		70 - 130	12/21/11 00:46	12/21/11 20:33	1.00

Lab Sample ID: 11L5598-BS1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	250	291		ug/L		116	54 - 145
2-Methylnaphthalene	50.0	41.6		ug/L		83	35 - 150
Benzene	50.0	45.9		ug/L		92	80 - 121
Bromobenzene	50.0	46.8		ug/L		94	68 - 130
Bromochloromethane	50.0	52.9		ug/L		106	78 - 129
Bromodichloromethane	50.0	45.1		ug/L		90	75 - 129
Bromoform	50.0	40.8		ug/L		82	46 - 145
Bromomethane	50.0	41.0		ug/L		82	41 - 150
2-Butanone	250	246		ug/L		98	62 - 133
sec-Butylbenzene	50.0	52.5		ug/L		105	76 - 128
n-Butylbenzene	50.0	51.2		ug/L		102	68 - 132
tert-Butylbenzene	50.0	51.6		ug/L		103	76 - 126
Carbon disulfide	50.0	49.4		ug/L		99	77 - 126

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5598-BS1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Carbon Tetrachloride	50.0	52.7		ug/L		105	64 - 147
Chlorobenzene	50.0	48.2		ug/L		96	80 - 120
Chlorodibromomethane	50.0	61.2		ug/L		122	69 - 133
Chloroethane	50.0	44.8		ug/L		90	72 - 120
Chloroform	50.0	51.5		ug/L		103	73 - 129
Chloromethane	50.0	24.0		ug/L		48	12 - 150
2-Chlorotoluene	50.0	48.7		ug/L		97	75 - 126
4-Chlorotoluene	50.0	49.7		ug/L		99	75 - 130
1,2-Dibromo-3-chloropropane	50.0	40.9		ug/L		82	54 - 125
1,2-Dibromoethane (EDB)	50.0	60.2		ug/L		120	80 - 129
Dibromomethane	50.0	44.7		ug/L		89	71 - 125
1,4-Dichlorobenzene	50.0	51.1		ug/L		102	80 - 120
1,3-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 122
1,2-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 121
Dichlorodifluoromethane	50.0	37.9		ug/L		76	37 - 127
1,1-Dichloroethane	50.0	50.4		ug/L		101	78 - 125
1,2-Dichloroethane	50.0	46.4		ug/L		93	77 - 121
cis-1,2-Dichloroethene	50.0	50.1		ug/L		100	76 - 125
1,1-Dichloroethene	50.0	56.3		ug/L		113	79 - 124
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	79 - 126
1,3-Dichloropropane	50.0	55.1		ug/L		110	80 - 125
1,2-Dichloropropane	50.0	43.1		ug/L		86	75 - 120
2,2-Dichloropropane	50.0	51.6		ug/L		103	43 - 161
cis-1,3-Dichloropropene	50.0	54.4		ug/L		109	74 - 140
trans-1,3-Dichloropropene	50.0	55.5		ug/L		111	63 - 134
1,1-Dichloropropene	50.0	50.0		ug/L		100	80 - 122
Ethylbenzene	50.0	47.8		ug/L		96	80 - 130
Hexachlorobutadiene	50.0	44.3		ug/L		89	49 - 146
2-Hexanone	250	260		ug/L		104	60 - 142
Isopropylbenzene	50.0	50.4		ug/L		101	80 - 141
p-Isopropyltoluene	50.0	50.9		ug/L		102	75 - 128
Methyl tert-Butyl Ether	50.0	43.9		ug/L		88	72 - 133
Methylene Chloride	50.0	55.3		ug/L		111	79 - 123
4-Methyl-2-pentanone	250	274		ug/L		110	60 - 137
Naphthalene	50.0	46.9		ug/L		94	62 - 138
n-Propylbenzene	50.0	49.8		ug/L		100	75 - 129
Styrene	50.0	45.3		ug/L		91	80 - 127
1,1,1,2-Tetrachloroethane	50.0	48.7		ug/L		97	74 - 135
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	69 - 131
Tetrachloroethene	50.0	59.7		ug/L		119	80 - 126
Toluene	50.0	59.8		ug/L		120	80 - 126
1,2,3-Trichlorobenzene	50.0	48.2		ug/L		96	62 - 133
1,2,4-Trichlorobenzene	50.0	46.6		ug/L		93	63 - 133
1,1,2-Trichloroethane	50.0	60.2		ug/L		120	80 - 124
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	78 - 135
Trichloroethene	50.0	49.9		ug/L		100	80 - 123
Trichlorofluoromethane	50.0	52.1		ug/L		104	65 - 124
1,2,3-Trichloropropane	50.0	47.2		ug/L		94	70 - 131
1,3,5-Trimethylbenzene	50.0	50.6		ug/L		101	77 - 127
1,2,4-Trimethylbenzene	50.0	50.2		ug/L		100	77 - 126

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5598-BS1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	44.0		ug/L		88	68 - 120
Xylenes, total	150	142		ug/L		95	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4	96		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8	119		70 - 130
4-Bromofluorobenzene	94		70 - 130

Lab Sample ID: 11L5598-BSD1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	300		ug/L		120	54 - 145	3	21
2-Methylnaphthalene	50.0	42.8		ug/L		86	35 - 150	3	50
Benzene	50.0	52.0		ug/L		104	80 - 121	13	17
Bromobenzene	50.0	56.4		ug/L		113	68 - 130	19	20
Bromochloromethane	50.0	54.7		ug/L		109	78 - 129	3	17
Bromodichloromethane	50.0	47.6		ug/L		95	75 - 129	5	18
Bromoform	50.0	50.1	R2	ug/L		100	46 - 145	20	16
Bromomethane	50.0	43.0		ug/L		86	41 - 150	5	50
2-Butanone	250	256		ug/L		102	62 - 133	4	19
sec-Butylbenzene	50.0	52.5		ug/L		105	76 - 128	0.1	16
n-Butylbenzene	50.0	52.5		ug/L		105	68 - 132	3	18
tert-Butylbenzene	50.0	63.7	L1 R2	ug/L		127	76 - 126	21	16
Carbon disulfide	50.0	51.6		ug/L		103	77 - 126	4	21
Carbon Tetrachloride	50.0	52.0		ug/L		104	64 - 147	1	19
Chlorobenzene	50.0	49.2		ug/L		98	80 - 120	2	14
Chlorodibromomethane	50.0	51.7	R2	ug/L		103	69 - 133	17	15
Chloroethane	50.0	48.0		ug/L		96	72 - 120	7	20
Chloroform	50.0	52.3		ug/L		105	73 - 129	1	18
Chloromethane	50.0	25.2		ug/L		50	12 - 150	5	31
2-Chlorotoluene	50.0	52.8		ug/L		106	75 - 126	8	17
4-Chlorotoluene	50.0	50.9		ug/L		102	75 - 130	2	18
1,2-Dibromo-3-chloropropane	50.0	43.4		ug/L		87	54 - 125	6	24
1,2-Dibromoethane (EDB)	50.0	50.7	R2	ug/L		101	80 - 129	17	15
Dibromomethane	50.0	47.4		ug/L		95	71 - 125	6	16
1,4-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 120	0.4	15
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 122	0.4	15
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 121	1	15
Dichlorodifluoromethane	50.0	39.4		ug/L		79	37 - 127	4	18
1,1-Dichloroethane	50.0	53.4		ug/L		107	78 - 125	6	17
1,2-Dichloroethane	50.0	51.6		ug/L		103	77 - 121	11	17
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	76 - 125	3	17
1,1-Dichloroethene	50.0	58.3		ug/L		117	79 - 124	3	17
trans-1,2-Dichloroethene	50.0	54.1		ug/L		108	79 - 126	5	16
1,3-Dichloropropane	50.0	49.6		ug/L		99	80 - 125	10	14
1,2-Dichloropropane	50.0	46.0		ug/L		92	75 - 120	6	17

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5598-BSD1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2-Dichloropropane	50.0	53.0		ug/L		106	43 - 161	3	18
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	74 - 140	3	15
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	63 - 134	0.6	14
1,1-Dichloropropene	50.0	48.6		ug/L		97	80 - 122	3	17
Ethylbenzene	50.0	49.0		ug/L		98	80 - 130	2	15
Hexachlorobutadiene	50.0	45.3		ug/L		91	49 - 146	2	23
2-Hexanone	250	239		ug/L		95	60 - 142	9	15
Isopropylbenzene	50.0	63.3	R2	ug/L		127	80 - 141	23	16
p-Isopropyltoluene	50.0	51.3		ug/L		103	75 - 128	0.7	16
Methyl tert-Butyl Ether	50.0	46.7		ug/L		93	72 - 133	6	16
Methylene Chloride	50.0	58.0		ug/L		116	79 - 123	5	17
4-Methyl-2-pentanone	250	287		ug/L		115	60 - 137	5	17
Naphthalene	50.0	47.6		ug/L		95	62 - 138	2	26
n-Propylbenzene	50.0	53.5		ug/L		107	75 - 129	7	17
Styrene	50.0	46.8		ug/L		94	80 - 127	3	24
1,1,1,2-Tetrachloroethane	50.0	49.7		ug/L		99	74 - 135	2	16
1,1,2,2-Tetrachloroethane	50.0	55.3	R2	ug/L		111	69 - 131	21	20
Tetrachloroethene	50.0	54.9		ug/L		110	80 - 126	8	16
Toluene	50.0	61.3		ug/L		123	80 - 126	3	15
1,2,3-Trichlorobenzene	50.0	49.0		ug/L		98	62 - 133	2	25
1,2,4-Trichlorobenzene	50.0	47.8		ug/L		96	63 - 133	2	19
1,1,2-Trichloroethane	50.0	55.0		ug/L		110	80 - 124	9	15
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	78 - 135	4	17
Trichloroethene	50.0	53.4		ug/L		107	80 - 123	7	17
Trichlorofluoromethane	50.0	53.7		ug/L		107	65 - 124	3	18
1,2,3-Trichloropropane	50.0	55.5		ug/L		111	70 - 131	16	19
1,3,5-Trimethylbenzene	50.0	52.0		ug/L		104	77 - 127	3	17
1,2,4-Trimethylbenzene	50.0	57.7		ug/L		115	77 - 126	14	16
Vinyl chloride	50.0	46.2		ug/L		92	68 - 120	5	17
Xylenes, total	150	146		ug/L		97	80 - 132	3	15

Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits
1,2-Dichloroethane-d4	92		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8	124		70 - 130
4-Bromofluorobenzene	111		70 - 130

Lab Sample ID: 11L5598-MS1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		12500	12900		ug/L		103	45 - 141
2-Methylnaphthalene	ND		2500	2420		ug/L		97	24 - 155
Benzene	564		2500	2910		ug/L		94	75 - 133
Bromobenzene	ND		2500	2650		ug/L		106	60 - 138
Bromochloromethane	ND		2500	2710		ug/L		108	67 - 139
Bromodichloromethane	ND		2500	2430		ug/L		97	70 - 140
Bromoform	ND		2500	2030		ug/L		81	42 - 147

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5598-MS1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Bromomethane	ND		2500	1800		ug/L		72	16 - 163
2-Butanone	ND		12500	11800		ug/L		94	50 - 138
sec-Butylbenzene	ND		2500	2720		ug/L		109	73 - 138
n-Butylbenzene	ND		2500	2690		ug/L		108	66 - 141
tert-Butylbenzene	ND		2500	2710		ug/L		109	70 - 138
Carbon disulfide	ND		2500	2490		ug/L		100	48 - 152
Carbon Tetrachloride	ND		2500	2810		ug/L		112	62 - 164
Chlorobenzene	ND		2500	2510		ug/L		100	80 - 129
Chlorodibromomethane	ND		2500	2630		ug/L		105	66 - 140
Chloroethane	ND		2500	2280		ug/L		91	58 - 137
Chloroform	ND		2500	2620		ug/L		105	66 - 138
Chloromethane	ND		2500	1200		ug/L		48	10 - 169
2-Chlorotoluene	ND		2500	2800		ug/L		112	67 - 138
4-Chlorotoluene	ND		2500	2790		ug/L		112	69 - 138
1,2-Dibromo-3-chloropropane	ND		2500	2310		ug/L		92	52 - 126
1,2-Dibromoethane (EDB)	ND		2500	2610		ug/L		104	75 - 137
Dibromomethane	ND		2500	2380		ug/L		95	58 - 140
1,4-Dichlorobenzene	ND		2500	2630		ug/L		105	78 - 126
1,3-Dichlorobenzene	ND		2500	2620		ug/L		105	77 - 131
1,2-Dichlorobenzene	ND		2500	2590		ug/L		104	79 - 128
Dichlorodifluoromethane	ND		2500	1780		ug/L		71	40 - 127
1,1-Dichloroethane	ND		2500	2510		ug/L		100	71 - 139
1,2-Dichloroethane	ND		2500	2420		ug/L		97	64 - 136
cis-1,2-Dichloroethene	ND		2500	2490		ug/L		100	68 - 138
1,1-Dichloroethene	ND		2500	2910		ug/L		117	70 - 142
trans-1,2-Dichloroethene	ND		2500	2530		ug/L		101	66 - 143
1,3-Dichloropropane	ND		2500	2490		ug/L		100	72 - 134
1,2-Dichloropropane	ND		2500	2140		ug/L		86	67 - 131
2,2-Dichloropropane	ND		2500	2400		ug/L		96	37 - 175
cis-1,3-Dichloropropene	ND		2500	2490		ug/L		99	71 - 141
trans-1,3-Dichloropropene	ND		2500	2350		ug/L		94	59 - 135
1,1-Dichloropropene	ND		2500	2650		ug/L		106	76 - 139
Ethylbenzene	811		2500	3190		ug/L		95	79 - 139
Hexachlorobutadiene	ND		2500	2110		ug/L		85	45 - 155
2-Hexanone	ND		12500	11500		ug/L		92	50 - 150
Isopropylbenzene	39.5		2500	2580		ug/L		102	80 - 153
p-Isopropyltoluene	ND		2500	2650		ug/L		106	71 - 137
Methyl tert-Butyl Ether	ND		2500	2160		ug/L		86	66 - 141
Methylene Chloride	ND		2500	2750		ug/L		110	64 - 139
4-Methyl-2-pentanone	ND		12500	11600		ug/L		93	50 - 147
Naphthalene	ND		2500	2960		ug/L		118	55 - 140
n-Propylbenzene	137		2500	3110		ug/L		119	69 - 142
Styrene	ND		2500	2260		ug/L		91	61 - 148
1,1,1,2-Tetrachloroethane	ND		2500	2510		ug/L		100	73 - 141
1,1,2,2-Tetrachloroethane	ND		2500	2600		ug/L		104	56 - 143
Tetrachloroethene	ND		2500	2760		ug/L		110	72 - 145
Toluene	285		2500	2790		ug/L		100	75 - 136
1,2,3-Trichlorobenzene	ND		2500	2380		ug/L		95	55 - 138
1,2,4-Trichlorobenzene	ND		2500	2440		ug/L		97	60 - 136
1,1,2-Trichloroethane	ND		2500	2600		ug/L		104	74 - 134

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5598-MS1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	ND		2500	2720		ug/L		109	76 - 149
Trichloroethene	ND		2500	2670		ug/L		107	73 - 144
Trichlorofluoromethane	ND		2500	2680		ug/L		107	58 - 139
1,2,3-Trichloropropane	ND		2500	2580		ug/L		103	53 - 144
1,3,5-Trimethylbenzene	140		2500	3070		ug/L		117	69 - 139
1,2,4-Trimethylbenzene	1130		2500	3850		ug/L		109	69 - 136
Vinyl chloride	ND		2500	2160		ug/L		86	56 - 129
Xylenes, total	2260		7500	8810		ug/L		87	74 - 141

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
1,2-Dichloroethane-d4	94		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8	100		70 - 130
4-Bromofluorobenzene	107		70 - 130

Lab Sample ID: 11L5598-MSD1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	ND		12500	12700		ug/L		101	45 - 141	2	21
2-Methylnaphthalene	ND		2500	2230		ug/L		89	24 - 155	8	50
Benzene	564		2500	2890		ug/L		93	75 - 133	1	17
Bromobenzene	ND		2500	2450		ug/L		98	60 - 138	8	20
Bromochloromethane	ND		2500	2660		ug/L		106	67 - 139	2	17
Bromodichloromethane	ND		2500	2420		ug/L		97	70 - 140	0.5	18
Bromoform	ND		2500	1940		ug/L		78	42 - 147	5	16
Bromomethane	ND		2500	2070		ug/L		83	16 - 163	14	50
2-Butanone	ND		12500	11200		ug/L		90	50 - 138	5	19
sec-Butylbenzene	ND		2500	2580		ug/L		103	73 - 138	5	16
n-Butylbenzene	ND		2500	2570		ug/L		103	66 - 141	4	18
tert-Butylbenzene	ND		2500	2560		ug/L		102	70 - 138	6	16
Carbon disulfide	ND		2500	2450		ug/L		98	48 - 152	2	21
Carbon Tetrachloride	ND		2500	2790		ug/L		112	62 - 164	0.5	19
Chlorobenzene	ND		2500	2390		ug/L		96	80 - 129	5	14
Chlorodibromomethane	ND		2500	2680		ug/L		107	66 - 140	2	15
Chloroethane	ND		2500	2290		ug/L		92	58 - 137	0.7	20
Chloroform	ND		2500	2690		ug/L		107	66 - 138	3	18
Chloromethane	ND		2500	1180		ug/L		47	10 - 169	0.9	31
2-Chlorotoluene	ND		2500	2650		ug/L		106	67 - 138	5	17
4-Chlorotoluene	ND		2500	2520		ug/L		101	69 - 138	10	18
1,2-Dibromo-3-chloropropane	ND		2500	2220		ug/L		89	52 - 126	4	24
1,2-Dibromoethane (EDB)	ND		2500	2610		ug/L		104	75 - 137	0.06	15
Dibromomethane	ND		2500	2370		ug/L		95	58 - 140	0.3	16
1,4-Dichlorobenzene	ND		2500	2460		ug/L		98	78 - 126	6	15
1,3-Dichlorobenzene	ND		2500	2460		ug/L		98	77 - 131	6	15
1,2-Dichlorobenzene	ND		2500	2460		ug/L		98	79 - 128	5	15
Dichlorodifluoromethane	ND		2500	1760		ug/L		70	40 - 127	1	18
1,1-Dichloroethane	ND		2500	2480		ug/L		99	71 - 139	0.9	17

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L5598-MSD1

Matrix: Water

Analysis Batch: U022703

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 11L5598_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,2-Dichloroethane	ND		2500	2380		ug/L		95	64 - 136	2	17
cis-1,2-Dichloroethene	ND		2500	2420		ug/L		97	68 - 138	3	17
1,1-Dichloroethene	ND		2500	2860		ug/L		114	70 - 142	2	17
trans-1,2-Dichloroethene	ND		2500	2480		ug/L		99	66 - 143	2	16
1,3-Dichloropropane	ND		2500	2450		ug/L		98	72 - 134	2	14
1,2-Dichloropropane	ND		2500	2110		ug/L		84	67 - 131	1	17
2,2-Dichloropropane	ND		2500	2360		ug/L		94	37 - 175	2	18
cis-1,3-Dichloropropene	ND		2500	2460		ug/L		98	71 - 141	1	15
trans-1,3-Dichloropropene	ND		2500	2370		ug/L		95	59 - 135	1	14
1,1-Dichloropropene	ND		2500	2680		ug/L		107	76 - 139	1	17
Ethylbenzene	811		2500	3190		ug/L		95	79 - 139	0.2	15
Hexachlorobutadiene	ND		2500	2140		ug/L		86	45 - 155	1	23
2-Hexanone	ND		12500	11700		ug/L		94	50 - 150	1	15
Isopropylbenzene	39.5		2500	2540		ug/L		100	80 - 153	2	16
p-Isopropyltoluene	ND		2500	2520		ug/L		101	71 - 137	5	16
Methyl tert-Butyl Ether	ND		2500	2140		ug/L		86	66 - 141	0.8	16
Methylene Chloride	ND		2500	2750		ug/L		110	64 - 139	0.04	17
4-Methyl-2-pentanone	ND		12500	11600		ug/L		93	50 - 147	0.1	17
Naphthalene	ND		2500	2580		ug/L		103	55 - 140	14	26
n-Propylbenzene	137		2500	2690		ug/L		102	69 - 142	15	17
Styrene	ND		2500	2200		ug/L		88	61 - 148	3	24
1,1,1,2-Tetrachloroethane	ND		2500	2450		ug/L		98	73 - 141	2	16
1,1,2,2-Tetrachloroethane	ND		2500	2430		ug/L		97	56 - 143	7	20
Tetrachloroethene	ND		2500	2750		ug/L		110	72 - 145	0.4	16
Toluene	285		2500	2790		ug/L		100	75 - 136	0.02	15
1,2,3-Trichlorobenzene	ND		2500	2380		ug/L		95	55 - 138	0.02	25
1,2,4-Trichlorobenzene	ND		2500	2340		ug/L		94	60 - 136	4	19
1,1,2-Trichloroethane	ND		2500	2580		ug/L		103	74 - 134	0.7	15
1,1,1-Trichloroethane	ND		2500	2680		ug/L		107	76 - 149	2	17
Trichloroethene	ND		2500	2780		ug/L		111	73 - 144	4	17
Trichlorofluoromethane	ND		2500	2660		ug/L		106	58 - 139	0.7	18
1,2,3-Trichloropropane	ND		2500	2390		ug/L		96	53 - 144	8	19
1,3,5-Trimethylbenzene	140		2500	2780		ug/L		106	69 - 139	10	17
1,2,4-Trimethylbenzene	1130		2500	3590		ug/L		98	69 - 136	7	16
Vinyl chloride	ND		2500	2250		ug/L		90	56 - 129	4	17
Xylenes, total	2260		7500	8980		ug/L		90	74 - 141	2	15

Surrogate	Matrix Spike Dup	Matrix Spike Dup	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4	96		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8	105		70 - 130
4-Bromofluorobenzene	107		70 - 130

QC Sample Results

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method: EPA 504.1 - EDB and DBCP by EPA Method 504.1

Lab Sample ID: 11L5694-BLK1

Matrix: Water

Analysis Batch: U022624

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L5694_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.02000		ug/L		12/27/11 11:00	12/27/11 14:23	1.00
Surrogate	Blank %Recovery	Blank Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	113		50 - 150				12/27/11 11:00	12/27/11 14:23	1.00

Lab Sample ID: 11L5694-BS1

Matrix: Water

Analysis Batch: U022624

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L5694_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2-Dibromoethane (EDB)	0.286	0.286	MNR1	ug/L		100	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,3-Dichlorobenzene	103		50 - 150				

QC Association Summary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

GCMS Volatiles

Analysis Batch: U022256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5016-BLK1	Method Blank	Total	Water	SW846 8260B	11L5016_P
11L5016-BS1	Lab Control Sample	Total	Water	SW846 8260B	11L5016_P
11L5016-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11L5016_P
11L5016-MS1	Matrix Spike	Total	Water	SW846 8260B	11L5016_P
11L5016-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11L5016_P
NVL2728-01	MW-4	Total	Ground Water	SW846 8260B	11L5016_P
NVL2728-02	MW-3	Total	Ground Water	SW846 8260B	11L5016_P
NVL2728-03	MW-2	Total	Ground Water	SW846 8260B	11L5016_P
NVL2728-04	MW-1	Total	Ground Water	SW846 8260B	11L5016_P

Analysis Batch: U022703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5598-BLK1	Method Blank	Total	Water	SW846 8260B	11L5598_P
11L5598-BS1	Lab Control Sample	Total	Water	SW846 8260B	11L5598_P
11L5598-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11L5598_P
11L5598-MS1	Matrix Spike	Total	Water	SW846 8260B	11L5598_P
11L5598-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11L5598_P
NVL2728-05 - RE3	MW-5	Total	Ground Water	SW846 8260B	11L5598_P

Analysis Batch: U022766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5368-BLK1	Method Blank	Total	Water	SW846 8260B	11L5368_P
11L5368-BS1	Lab Control Sample	Total	Water	SW846 8260B	11L5368_P
11L5368-MS1	Matrix Spike	Total	Water	SW846 8260B	11L5368_P
11L5368-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11L5368_P
NVL2728-03 - RE1	MW-2	Total	Ground Water	SW846 8260B	11L5368_P
NVL2728-04 - RE1	MW-1	Total	Ground Water	SW846 8260B	11L5368_P
NVL2728-05 - RE1	MW-5	Total	Ground Water	SW846 8260B	11L5368_P

Prep Batch: 11L5016_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5016-BLK1	Method Blank	Total	Water	EPA 5030B	
11L5016-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11L5016-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11L5016-MS1	Matrix Spike	Total	Water	EPA 5030B	
11L5016-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NVL2728-01	MW-4	Total	Ground Water	EPA 5030B	
NVL2728-02	MW-3	Total	Ground Water	EPA 5030B	
NVL2728-03	MW-2	Total	Ground Water	EPA 5030B	
NVL2728-04	MW-1	Total	Ground Water	EPA 5030B	

Prep Batch: 11L5368_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5368-BLK1	Method Blank	Total	Water	EPA 5030B	
11L5368-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11L5368-MS1	Matrix Spike	Total	Water	EPA 5030B	
11L5368-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NVL2728-03 - RE1	MW-2	Total	Ground Water	EPA 5030B	
NVL2728-04 - RE1	MW-1	Total	Ground Water	EPA 5030B	
NVL2728-05 - RE1	MW-5	Total	Ground Water	EPA 5030B	

QC Association Summary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

GCMS Volatiles (Continued)

Prep Batch: 11L5598_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5598-BLK1	Method Blank	Total	Water	EPA 5030B	
11L5598-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11L5598-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11L5598-MS1	Matrix Spike	Total	Water	EPA 5030B	
11L5598-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NVL2728-05 - RE3	MW-5	Total	Ground Water	EPA 5030B	

Pesticides

Analysis Batch: U022624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5694-BLK1	Method Blank	Total	Water	EPA 504.1	11L5694_P
11L5694-BS1	Lab Control Sample	Total	Water	EPA 504.1	11L5694_P
NVL2728-01	MW-4	Total	Ground Water	EPA 504.1	11L5694_P
NVL2728-02	MW-3	Total	Ground Water	EPA 504.1	11L5694_P
NVL2728-03	MW-2	Total	Ground Water	EPA 504.1	11L5694_P
NVL2728-04	MW-1	Total	Ground Water	EPA 504.1	11L5694_P
NVL2728-05	MW-5	Total	Ground Water	EPA 504.1	11L5694_P

Prep Batch: 11L5694_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L5694-BLK1	Method Blank	Total	Water	EPA 8011	
11L5694-BS1	Lab Control Sample	Total	Water	EPA 8011	
NVL2728-01	MW-4	Total	Ground Water	EPA 8011	
NVL2728-02	MW-3	Total	Ground Water	EPA 8011	
NVL2728-03	MW-2	Total	Ground Water	EPA 8011	
NVL2728-04	MW-1	Total	Ground Water	EPA 8011	
NVL2728-05	MW-5	Total	Ground Water	EPA 8011	

Lab Chronicle

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-4

Date Collected: 12/15/11 13:30

Date Received: 12/17/11 08:15

Lab Sample ID: NVL2728-01

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L5016_P	12/19/11 16:36	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022256	12/20/11 00:03	CMM	TAL NSH
Total	Prep	EPA 8011		0.9972	11L5694_P	12/27/11 11:00	RMC	TAL NSH
Total	Analysis	EPA 504.1		1.000	U022624	12/27/11 18:36	RMC	TAL NSH

Client Sample ID: MW-3

Date Collected: 12/15/11 14:00

Date Received: 12/17/11 08:15

Lab Sample ID: NVL2728-02

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L5016_P	12/19/11 16:36	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022256	12/20/11 00:31	CMM	TAL NSH
Total	Prep	EPA 8011		1.000	11L5694_P	12/27/11 11:00	RMC	TAL NSH
Total	Analysis	EPA 504.1		1.000	U022624	12/27/11 18:52	RMC	TAL NSH

Client Sample ID: MW-2

Date Collected: 12/15/11 14:30

Date Received: 12/17/11 08:15

Lab Sample ID: NVL2728-03

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L5016_P	12/19/11 16:36	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022256	12/20/11 00:59	CMM	TAL NSH
Total	Prep	EPA 5030B	RE1	1.00	11L5368_P	12/20/11 16:58	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	20.0	U022766	12/21/11 02:53	CMM	TAL NSH
Total	Prep	EPA 8011		1.003	11L5694_P	12/27/11 11:00	RMC	TAL NSH
Total	Analysis	EPA 504.1		1.000	U022624	12/27/11 19:07	RMC	TAL NSH

Client Sample ID: MW-1

Date Collected: 12/15/11 15:00

Date Received: 12/17/11 08:15

Lab Sample ID: NVL2728-04

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L5016_P	12/19/11 16:36	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022256	12/20/11 01:27	CMM	TAL NSH
Total	Prep	EPA 5030B	RE1	1.00	11L5368_P	12/20/11 16:58	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	50.0	U022766	12/21/11 03:21	CMM	TAL NSH
Total	Prep	EPA 8011		1.003	11L5694_P	12/27/11 11:00	RMC	TAL NSH
Total	Analysis	EPA 504.1		1.000	U022624	12/27/11 19:23	RMC	TAL NSH

Lab Chronicle

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Client Sample ID: MW-5

Date Collected: 12/15/11 15:30

Date Received: 12/17/11 08:15

Lab Sample ID: NVL2728-05

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11L5368_P	12/20/11 16:58	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U022766	12/21/11 00:05	CMM	TAL NSH
Total	Prep	EPA 5030B	RE3	1.00	11L5598_P	12/21/11 17:45	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE3	50.0	U022703	12/21/11 22:53	CMM	TAL NSH
Total	Prep	EPA 8011		1.014	11L5694_P	12/27/11 11:00	RMC	TAL NSH
Total	Analysis	EPA 504.1		1.000	U022624	12/27/11 19:39	RMC	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
EPA 504.1	EDB and DBCP by EPA Method 504.1		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: Basin Engineering, Inc.
Project/Site: 0301 16

TestAmerica Job ID: NVL2728

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA - LAP	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canada (CALA)	Canada (CALA)		3744
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

COOLER RECEIPT



NVL2728

Cooler Received/Opened On 12/17/2011 @ 0815

1. Tracking # 1924 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 3.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (Initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (Initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 1

Nashville Division
22960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

NVL2728

01/04/12 23:59

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring?

Enforcement Action?

Site State: New Mexico

PO#:

TA Quote #:

Project ID: Shamrock 63

Project #: 0301 16

Client Name/Account #: Basin Engineering, Inc.

Address: PO Box 3909

City/State/Zip: Durango, Colorado 81302

Project Manager: John Casey

Telephone Number: 970-769-2196

Sampler Name: (Print)

Sampler Signature:

[illegible]

Special Instructions:

Relinquished by:

Relinquished by:

12/29/2011

APPENDIX F
Statement of Familiarity



B A S I N
E N G I N E E R I N G, I N C

P. O. Box 3909 • Durango, CO 81302
Phone (970) 259-2078 • Fax (970) 385-4812

December 29, 2011

Ms. Susan von Gonten, Project Manager
State of New Mexico Environment Department
Petroleum Storage Tank Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507

RE: Statement of Familiarity
Well Installation & Semi-Annual Ground Water Monitoring Report
Shamrock #63
3624 Cerrillos Road
Santa Fe, New Mexico
Facility ID #29206 **Release ID #4509**
Work Plan ID #16220 **Deliverable ID #16220-1**

Dear Ms. Von Gonten:

The purpose of this letter is to specifically address the statement requirement of Section 20.5.12.1212.B. of the New Mexico Administrative Code (NMAC).

We, the undersigned, are personally familiar with the information submitted in the report referenced above and any documents referenced therein, and attest that the information submitted is true and accurate to the best of our knowledge.

If you require any additional information regarding the above-referenced Well Installation & Semi-Annual Ground Water Monitoring Report for the Shamrock #63 site, please contact our office at your earliest convenience at 970-259-2078.

Sincerely,
Basin Engineering, Inc.

John E. Casey, P.E.

Michael Hannigan, P.E.

cc: Jim Polk, Polk Oil Company
Mack With, Jurgens & With, P.A.