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ANL/EVS/AGEM/TR-11-03

Annual Report of Groundwater Monitoring at Everest, Kansas, in 2010

Environmental Science Division

USDA United States Department of Agriculture

Work sponsored by Commodity Credit Corporation,
United States Department of Agriculture

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by
Applied Geosciences and Environmental Management Section
Environmental Science Division, Argonne National Laboratory

March 2011

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United States Department of Agriculture

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Notation

AGEM	Applied Geosciences and Environmental Management
AMSL	above mean sea level
°C	degree(s) Celsius
CCC	Commodity Credit Corporation
CD	compact disc
COC	chain of custody
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
ft	foot (feet)
in.	inch(es)
KDHE	Kansas Department of Health and Environment
L	liter(s)
µg/kg	microgram(s) per kilogram
µg/L	microgram(s) per liter
$\mu g/m^3$	microgram(s) per cubic meter
µS/cm	microsiemen(s) per centimeter
mg/L	milligram(s) per liter
mi	mile(s)
mL	milliliter(s)
mV	millivolt(s)
ORP	oxidation-reduction potential
TOC	top of casing
USDA	U.S. Department of Agriculture
VOC	volatile organic compound
yr	year(s)

Annual Report of Groundwater Monitoring at Everest, Kansas, in 2010

1 Introduction

The Commodity Credit Corporation of the U.S. Department of Agriculture (CCC/USDA) began its environmental investigations at Everest, Kansas, in 2000. The work at Everest is implemented on behalf of the CCC/USDA by Argonne National Laboratory, under the oversight of the Kansas Department of Health and Environment (KDHE). The results of the environmental investigations have been reported in detail (Argonne 2001, 2003, 2006a,b).

The lateral extent of the carbon tetrachloride in groundwater over the years of investigation has been interpreted as shown in Figure 1.1 (2001-2002 data), Figure 1.2 (2006 data), Figure 1.3 (2008 data), and Figure 1.4 (2009 data). The pattern of groundwater flow and inferred contaminant migration has consistently been to the north-northwest from the former CCC/USDA facility toward the Nigh property, and then west-southwest from the Nigh property (e.g., Figure 1.5 [2008 data] and Figure 1.6 [2009 data]). Both the monitoring data for carbon tetrachloride and the low groundwater flow rates estimated for the Everest aquifer unit (Argonne 2003, 2006a,b, 2008) indicate slow contaminant migration.

On the basis of the accumulated findings, in March 2009 the CCC/USDA developed a plan for annual monitoring of the groundwater and surface water. This current monitoring plan (Appendix A in the report of monitoring in 2009 [Argonne 2010]) was approved by the KDHE (2009a). Under this plan, the monitoring wells are sampled by the low-flow procedure, and sample preservation, shipping, and analysis activities are consistent with previous work at Everest. The annual sampling will continue until identified conditions at the site indicate a technical justification for a change.

The first annual sampling event under the new monitoring plan took place in April 2009. The results of analyses for volatile organic compounds (VOCs) and water level measurements were consistent with previous observations (Figures 1.1-1.4). No carbon tetrachloride was detected in surface water of the intermittent creek or in tree branch samples collected at 18 locations along the creek banks. The complete results were reported previously (Argonne 2010).

This report presents the results of the second annual sampling events, conducted in 2010. Included in the 2010 monitoring were the following:

- Continued automatic and manual monitoring of groundwater levels.
- Groundwater sampling on April 8-9, 2010.
- Surface water sampling on April 8, 2010.
- Vegetation sampling on July 28, 2010.
- Indoor air sampling at selected residences on August 11-12, 2010.

The activities are described in Section 2, and the results are discussed in Section 3. Conclusions and recommendations are presented in Section 4.

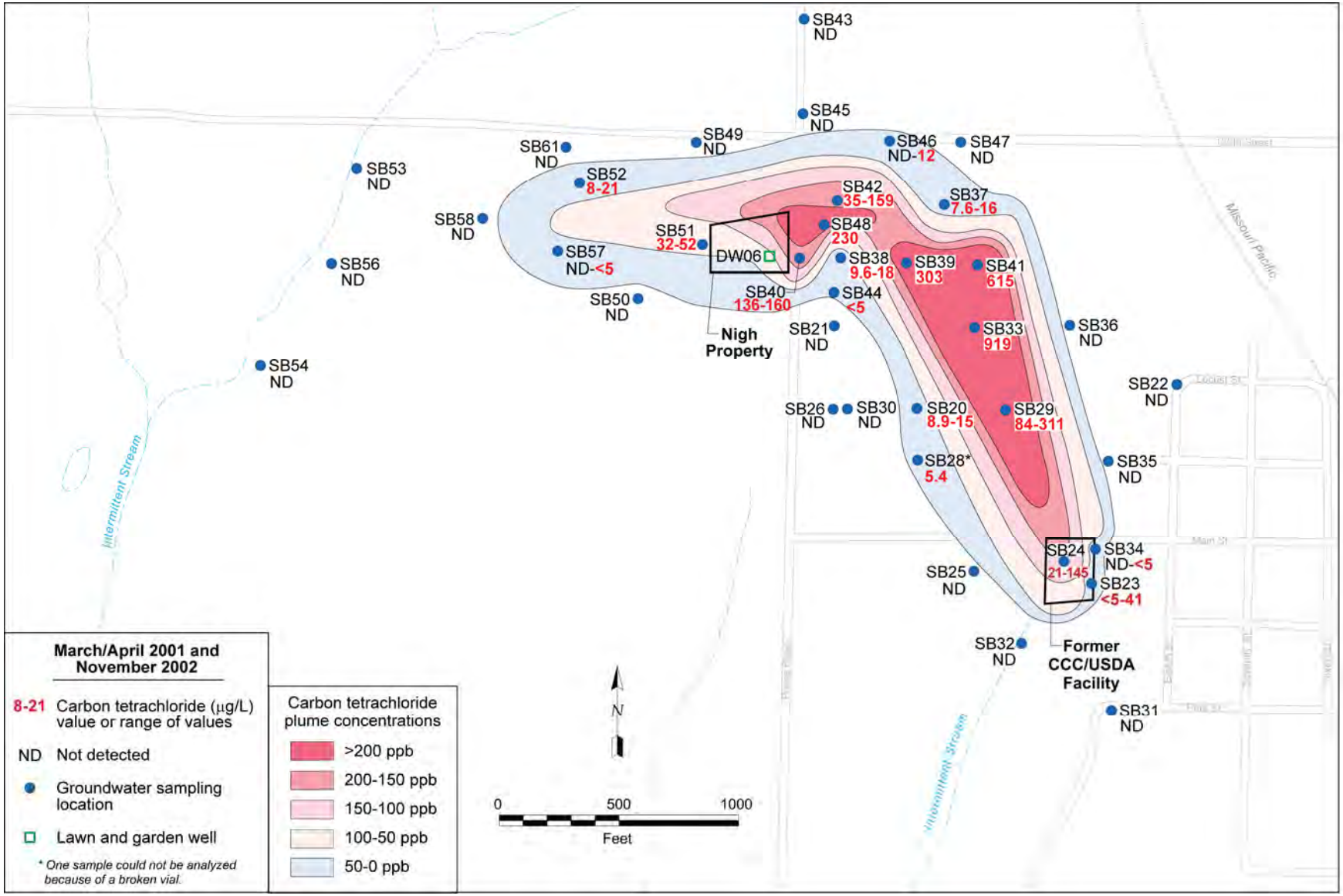


FIGURE 1.1 Interpreted carbon tetrachloride contaminant plume in groundwater at Everest, for combined data from March-April 2001 and November 2002.

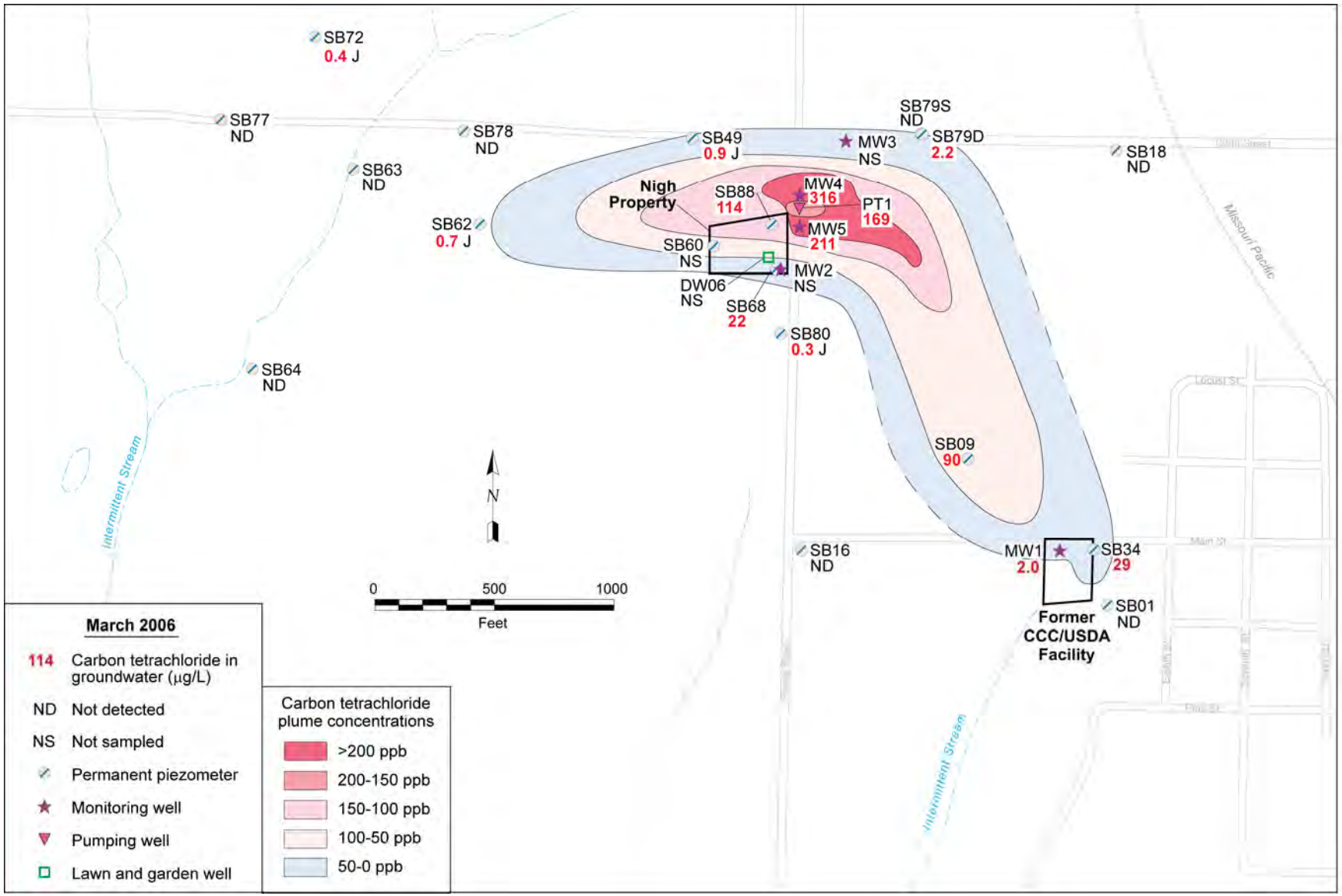


FIGURE 1.2 Interpreted carbon tetrachloride contaminant plume in groundwater at Everest, for data collected in March 2006.

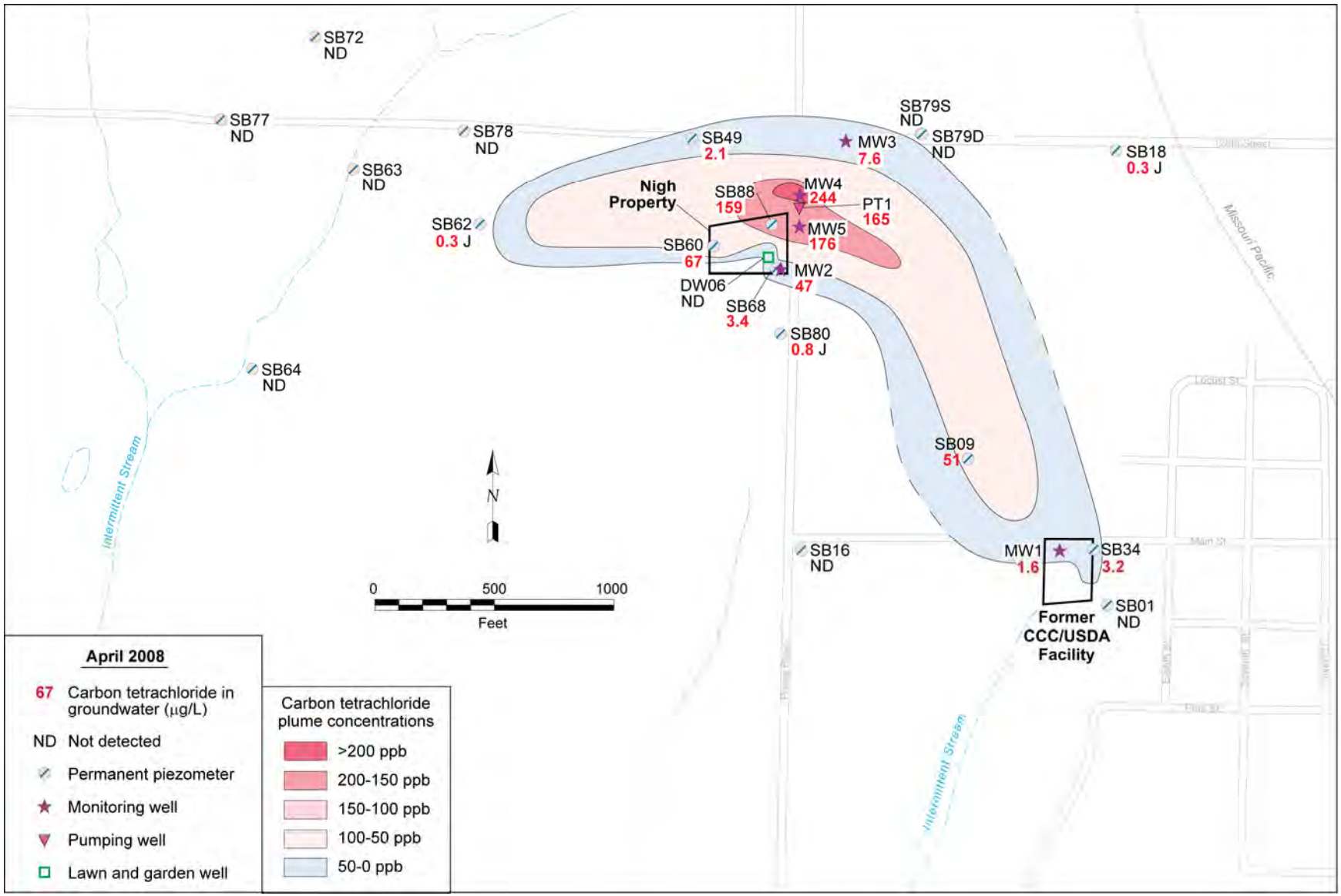


FIGURE 1.3 Interpreted carbon tetrachloride contaminant plume in groundwater at Everest, for data collected in April 2008.

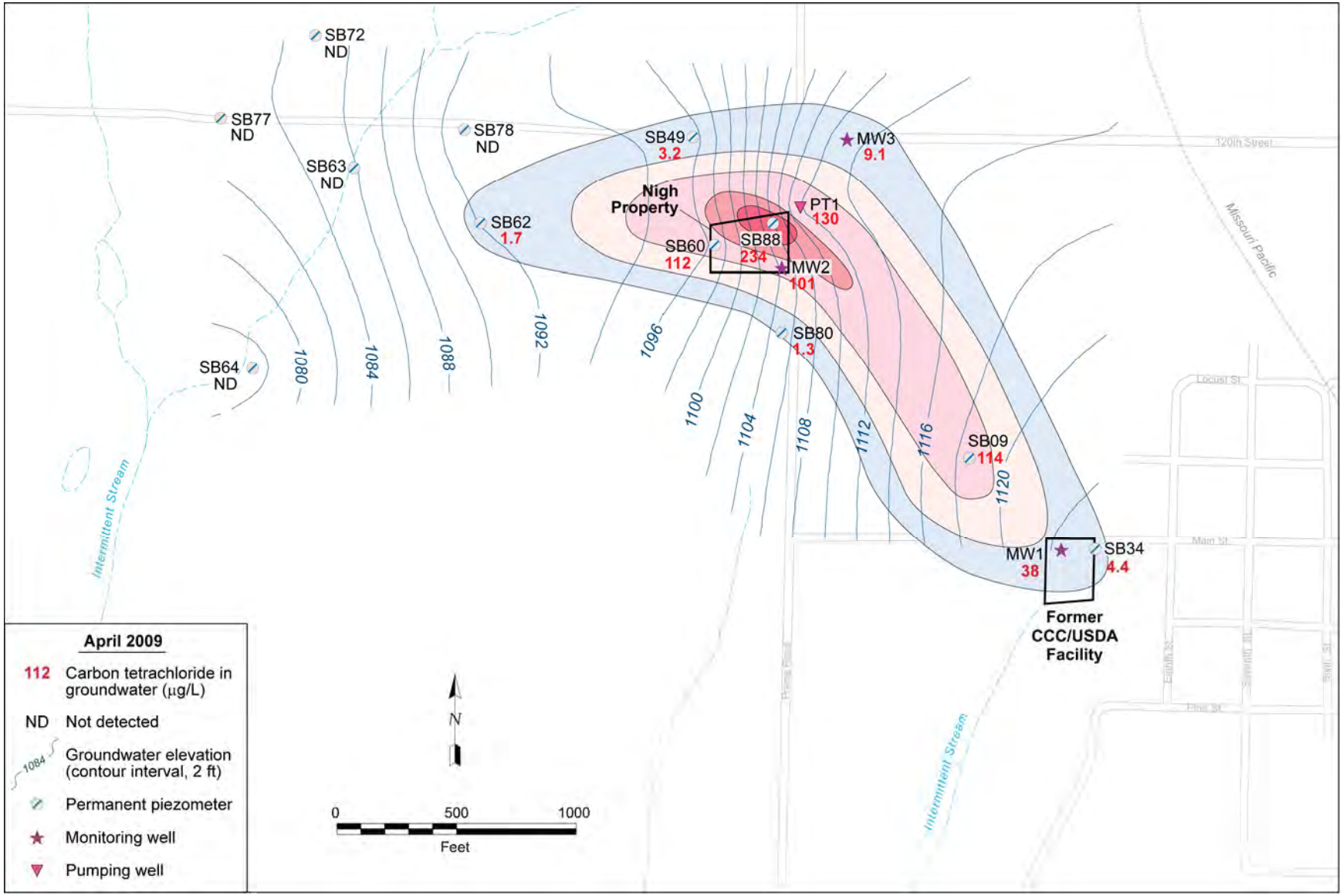


FIGURE 1.4 Interpreted carbon tetrachloride contaminant plume in groundwater at Everest, for data collected in April 2009.

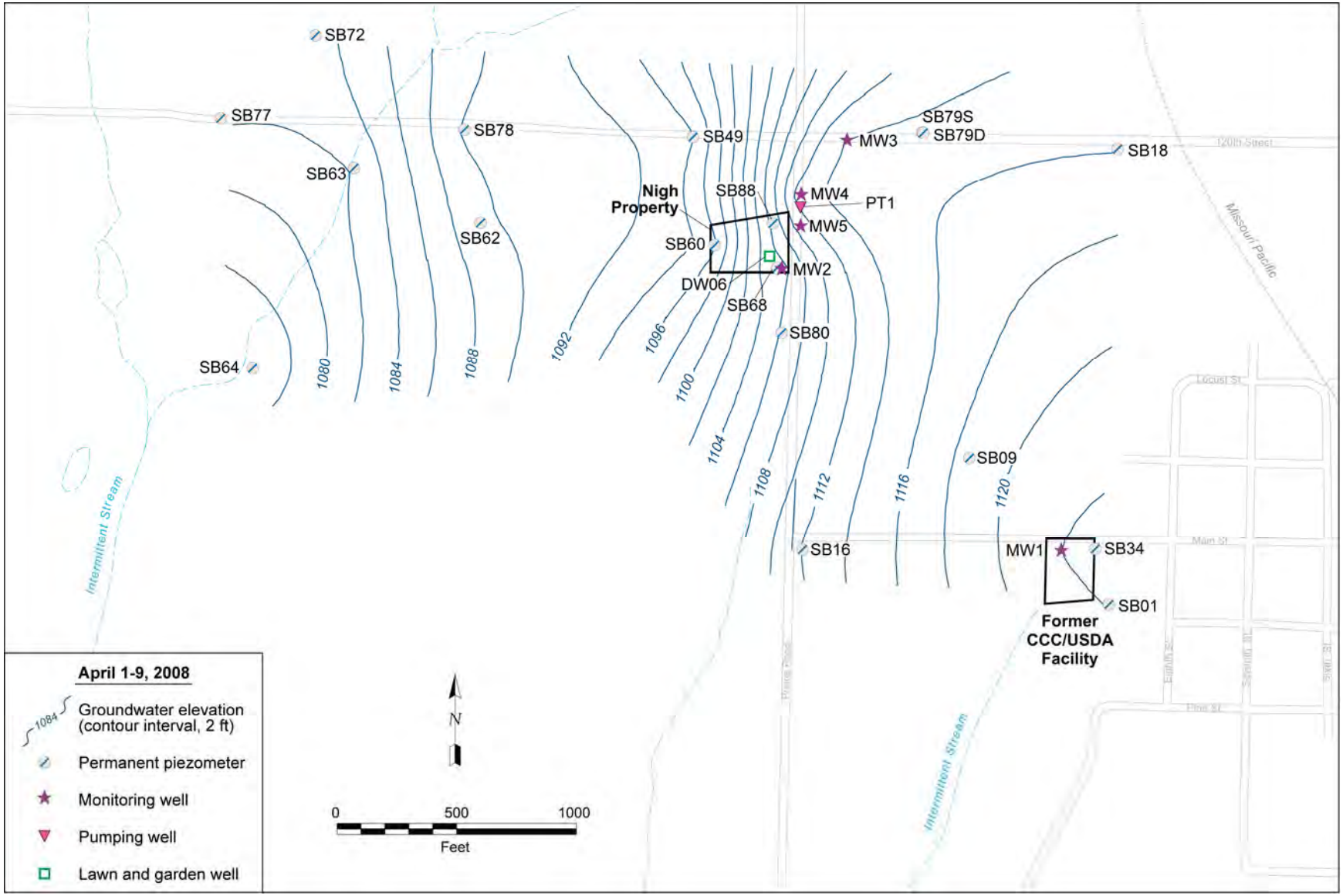


FIGURE 1.5 Potentiometric surface interpreted from water levels measured on April 1-9, 2008.

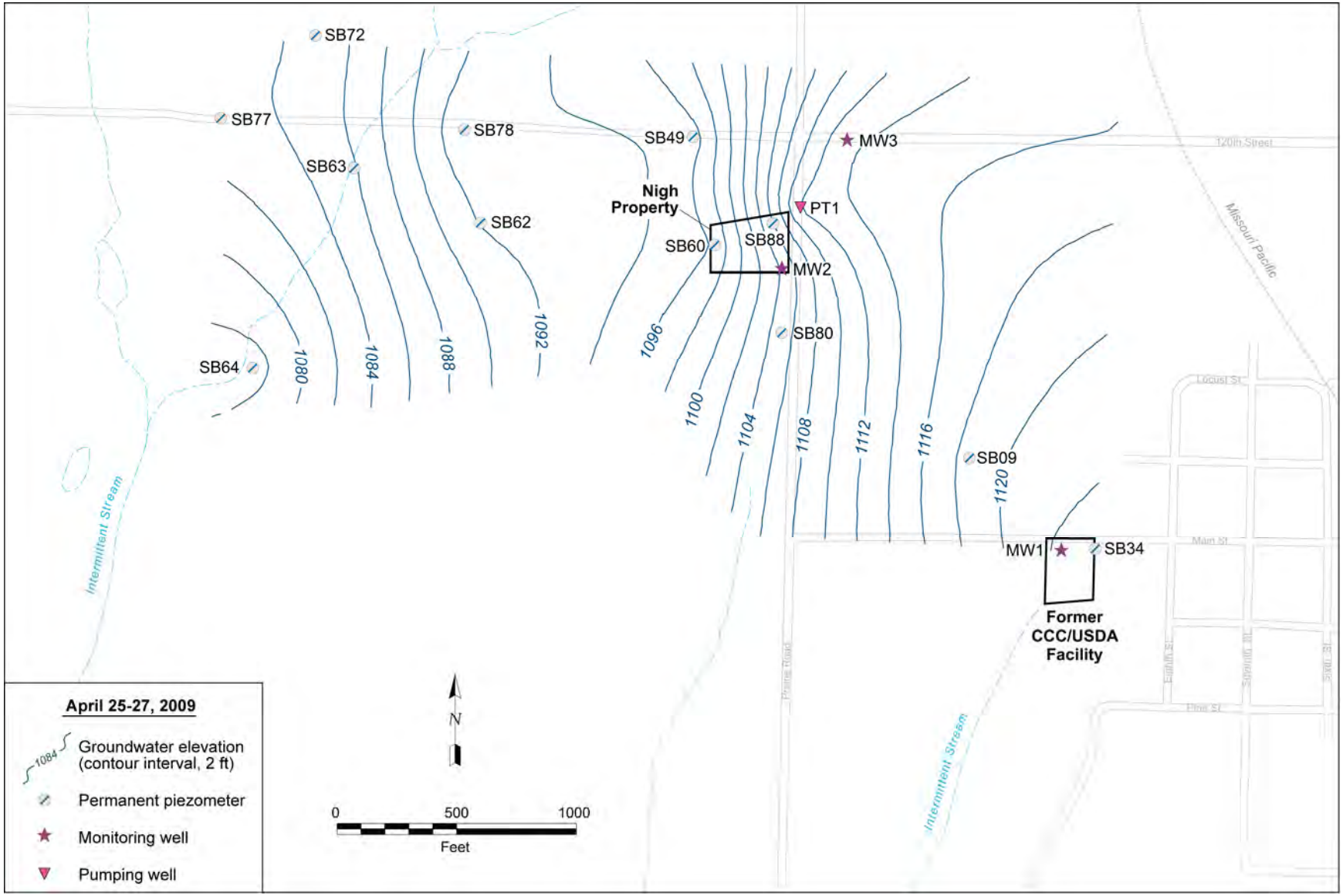


FIGURE 1.6 Potentiometric surface interpreted from water levels measured on April 25-27, 2009.

2 Sampling and Analysis Activities

2.1 Measurement of Groundwater Levels

Water level sensors incorporating data loggers have been used for automatic, continuous recording of groundwater levels at numerous locations at the Everest site since November 2002 (Argonne 2003, 2006a,b, 2008, 2010). In July 2006, with the approval of the KDHE, the active water level monitoring network was reduced to 6 locations (MW2, MW4, SB09, SB34, SB62, SB63; Figure 2.1) along the approximate central axis of the identified groundwater plume (Figure 1.2).

During the present reporting period, groundwater level data were recovered from the data loggers on April 22, 2010, and October 1, 2010. Data downloaded on October 20, 2009, and reported previously (Argonne 2010) are also shown in this report for comparison. Water levels were measured manually in the wells equipped with data loggers (MW2, MW4, SB09, SB34, SB62, SB63) in conjunction with all of the downloads. In addition, manual water level measurements were made in the larger set of wells sampled for VOCs (SB49, SB60, SB64, SB72, SB77, SB78, SB80, SB88, MW1, and MW3; Figure 2.2) on April 8-9, 2010, during the annual groundwater sampling event. The manual groundwater level measurements were made by using a water level indicator to determine the depth to groundwater, to within 0.01 ft, from the top of the well casing (TOC).

The groundwater level data for October 2009-October 2010 are presented and discussed in Section 3.1.

2.2 Surface Water and Groundwater Sampling and Analysis

On April 8, 2010, surface water samples were collected for VOCs analyses at 5 locations (Figure 2.3) along the intermittent creek to the west (downgradient) of the previously identified carbon tetrachloride contamination in groundwater. On April 8-9, 2010, groundwater samples were collected for VOCs analyses at 16 locations (MW1-MW4, SB09, SB34, SB49, SB60, SB62-SB64, SB72, SB77, SB78, SB80, SB88) along and near the identified contaminant migration pathway (Figure 2.2).

Samples were collected from the groundwater monitoring points by using the low-flow procedure described previously (Section 2.2 in the report of monitoring in 2009 [Argonne 2010]). Surface water samples were collected for VOCs analyses by directly dipping a laboratory-approved container beneath the ambient water surface at each required sampling location. The sequence of groundwater and surface water sampling activities during the April 2010 monitoring event is summarized in Appendix A, Table A.1.

The groundwater and surface water samples were labeled, packaged, and chilled to 4°C by placement in ice-filled coolers. The samples were shipped via an overnight delivery service to the Applied Geosciences and Environmental Management (AGEM) Laboratory at Argonne for VOCs analyses with U.S. Environmental Protection Agency (EPA) Method 524.2 (EPA 1995). Aliquots of selected samples (chosen in the field) were also shipped directly to TestAmerica Laboratories, Inc., South Burlington, Vermont, for verification VOCs analyses according to EPA Contract Laboratory Program protocols.

The results of the groundwater and surface water analyses are presented in Sections 3.2 and 3.3, respectively.

2.3 Vegetation Sampling and Analysis

Argonne experience has demonstrated that the sampling and analysis (for VOCs) of native vegetation, and particularly tree branch tissues, often provides a sensitive indicator of possible carbon tetrachloride contamination in the surface water or shallow groundwater within the plant rooting zone. Samples of branch tissues from tree species including elm, pin cherry, mulberry, Osage orange, willow, and cottonwood were therefore collected on July 28, 2010, at 16 locations (EV004-EV006, EV008-EV10, EV013, EV016-EV022, and EV024-EV025; Figure 2.4) along the intermittent creek. The branch samples were cut and sealed in 40-mL glass vials, then placed immediately on dry ice for shipment to the AGEM Laboratory for analysis (Alvarado and Rose 2004).

The results of the vegetation analyses are discussed in Section 3.4.

2.4 Indoor Air Sampling and Analysis

At the request of the KDHE (2009b,c) a work plan for indoor air sampling was submitted and approved in March 2010 (KDHE 2010a). The scope of the plan involved the collection of indoor air samples in homes (Figure 2.5) directly overlying or within 100 ft laterally of the identified carbon tetrachloride plume emanating from the former CCC/USDA facility at Everest. The depths to groundwater in this area are generally 40 ft or less. The purpose was to assess the risk to human health due to potential upward migration of vapors of carbon tetrachloride and its degradation products into potentially affected homes. The investigation of vapor intrusion was not a defined objective at the time of Argonne's previous investigations, which predated issuance of the KDHE's vapor intrusion guidance (KDHE 2007a).

The KDHE-approved work plan for the indoor air sampling is in Appendix B. The KDHE (2010a) allowed the use of its internal procedure BER-33 (KDHE 2000a) for this sampling event. Samples were collected in 24-hr canisters on August 11-12, 2010, and were analyzed for carbon tetrachloride and chloroform by EPA Method TO-15 at TestAmerica Laboratories, Inc., South Burlington, Vermont. The results are discussed in Section 3.5.

2.5 Handling and Disposal of Investigation-Derived Waste

Purge water generated as potentially contaminated investigation-derived waste was containerized on-site. The accumulated purge water was sampled on September 30, 2010, and analyzed by Pace Analytical Services, Inc., Lenexa, Kansas, on October 3, 2010. Methods used were EPA Method 5030/8260 for VOCs, EPA Method 504.1 for ethylene dibromide, and EPA Method 300 for nitrate as nitrogen. No contamination was detected. The laboratory results are in Supplement 1, on the compact disc (CD) inside the back cover of this report. With the approval of the KDHE, the water was delivered on December 17, 2010 (together with purge water from several other CCC/USDA investigation sites in Kansas), for disposal the Sabetha publicly owned wastewater treatment plant.

2.6 Quality Control for Sample Collection, Handling, and Analysis

The quality assurance/quality control procedures followed during the April 2010 monitoring event for collection, handling, and analysis of water samples are described in detail in the *Master Work Plan* (Argonne 2002). Results of these activities are summarized as follows:

- Sample collection and handling activities were monitored by the documentation of samples as they were collected and the use of chain-of-custody forms and custody seals to ensure sample integrity during handling and shipment.

- Samples designated for VOCs analyses were received with custody seals intact and at the appropriate preservation temperature. All samples were analyzed within the required holding times.

- Quality control samples collected to monitor sample-handling activities (trip blanks and equipment rinsates; Table A.1 in Appendix A) and method blanks analyzed with the samples to monitor analytical methodologies were all free of carbon tetrachloride and chloroform contamination.

- Groundwater and surface water samples were analyzed for VOCs at the AGEM Laboratory by the purge-and-trap method on a gas chromatograph-mass spectrometer system. Calibration checks analyzed with each sample delivery group were required to be within ±20% of the standard. Surrogate standard determinations performed on samples and blanks were within the specified range of 80-120% for all samples, in either the initial analysis or a successful reanalysis.

- Accuracy and precision of the analytical methodology were evident in the analysis of two replicate samples and duplicate analysis of two additional samples, with average relative percent difference values between the initial analyses and the associated quality control analyses of 5.1% for carbon tetrachloride and 4.9% for chloroform (Table C.1 in Appendix C). The analytical data from the AGEM Laboratory for groundwater and surface water are acceptable for quantitative determination of contaminant distribution.

- In accordance with the procedures defined in the *Master Work Plan* (Argonne 2002), selected samples were submitted to a second laboratory (TestAmerica) for verification analysis according to the protocols of the EPA's Contract Laboratory Program. The results from the two laboratories compare favorably over the range of contaminant concentrations detected, with average relative percent difference values of 12.7% for carbon tetrachloride and 6.6% for chloroform (Table C.2 in Appendix C). The analytical data provided by TestAmerica for sample delivery group 136771 are in Supplement 2 (on CD).

- Vegetation samples were analyzed for carbon tetrachloride and chloroform at the AGEM Laboratory by using a gas chromatograph with electron capture detection to achieve the low detection limits required. An 11-point calibration of the gas chromatograph system was established on the basis of the mass of known quantities of carbon tetrachloride and chloroform.

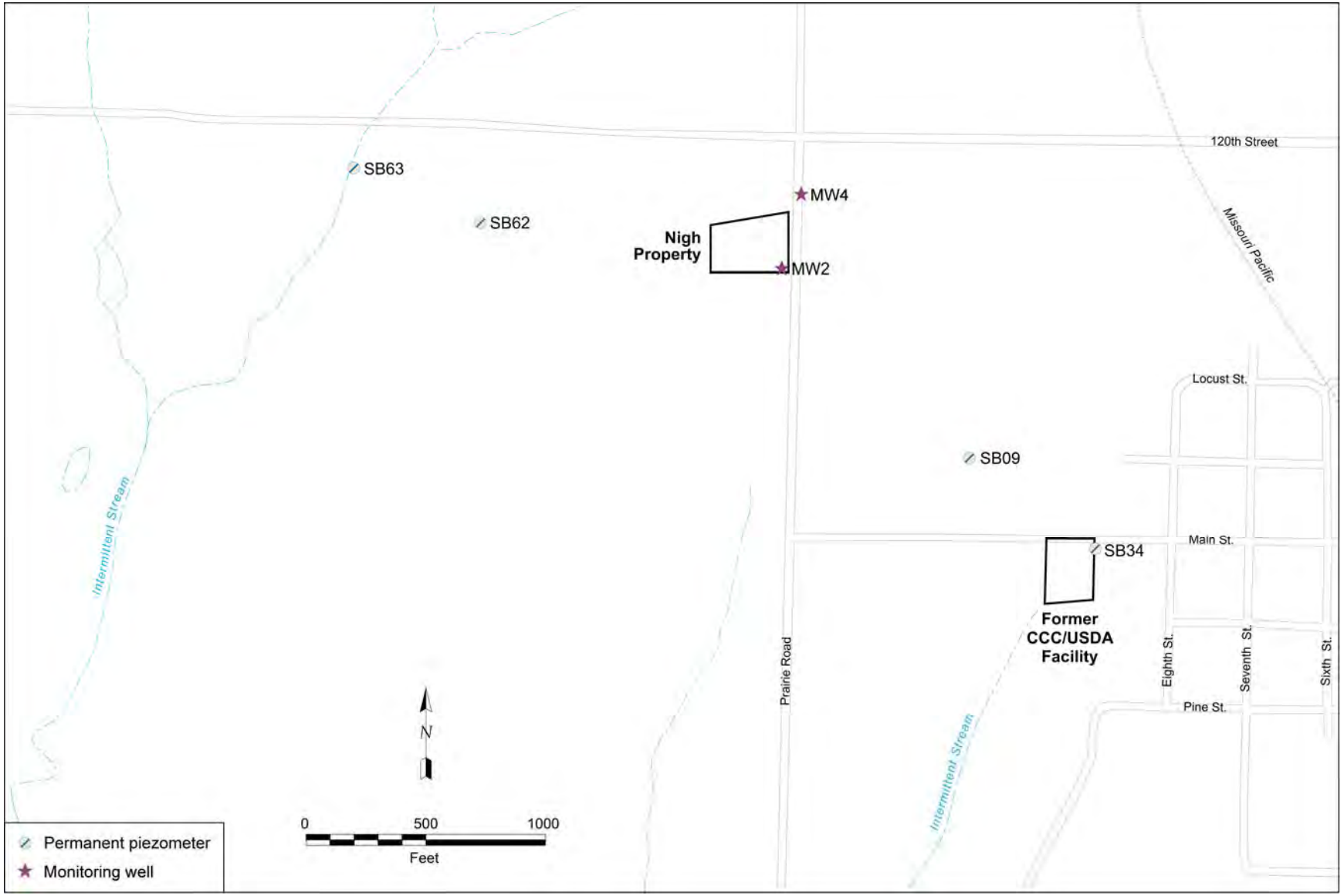


FIGURE 2.1 Wells equipped with water level sensors for groundwater level monitoring in 2010.

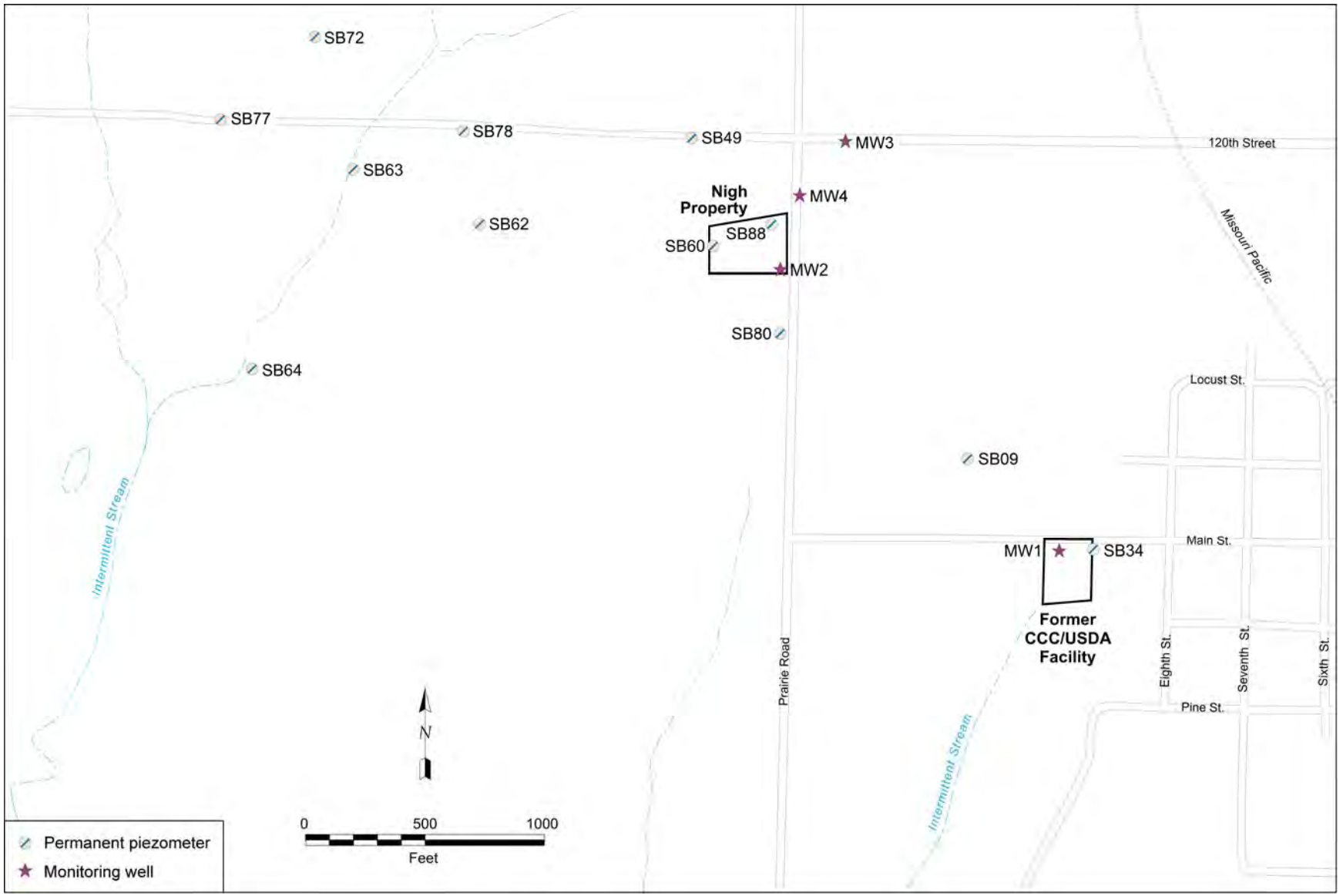


FIGURE 2.2 Groundwater sampling locations in April 2010.

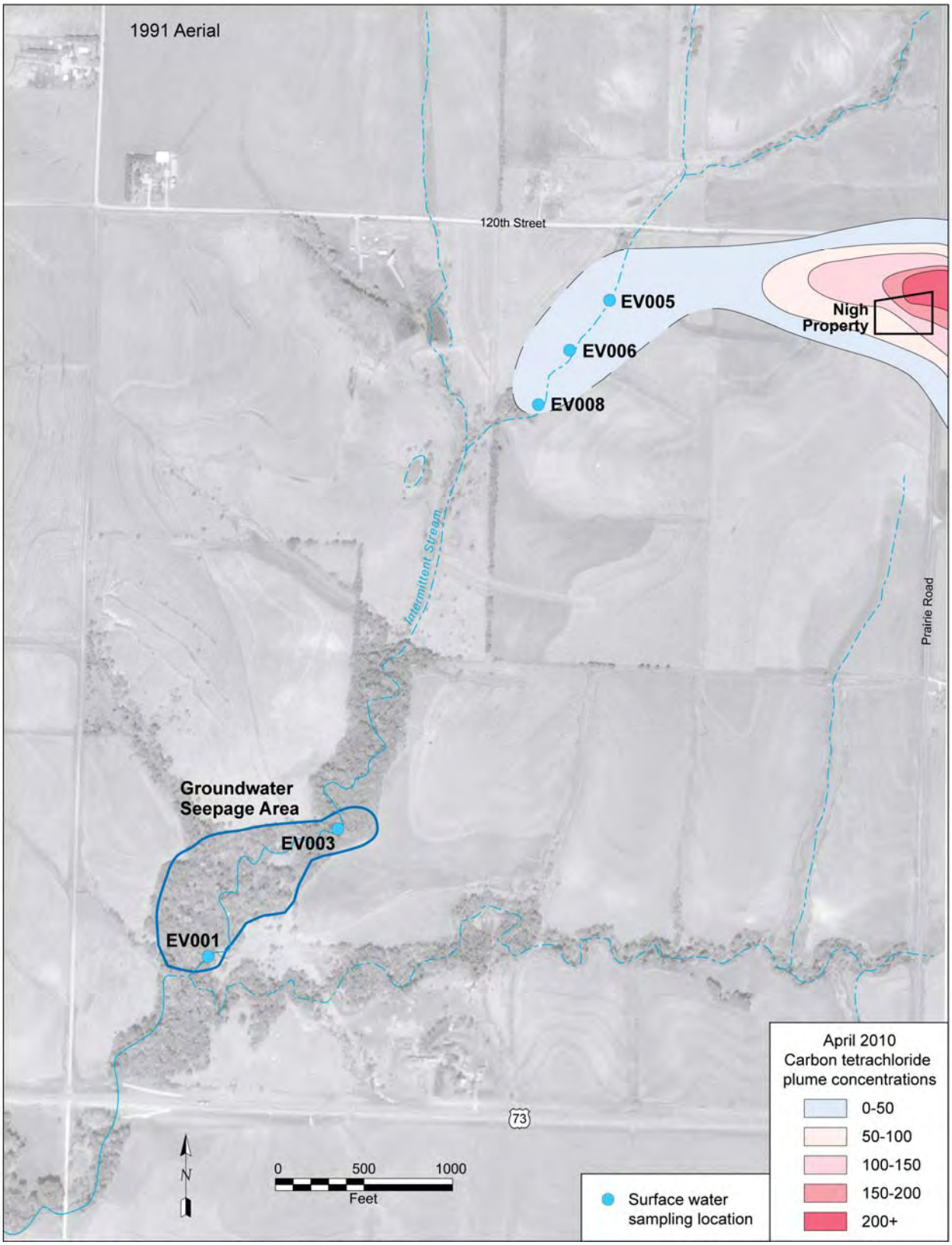


FIGURE 2.3 Surface water sampling locations in April 2010.



FIGURE 2.4 Vegetation sampling locations in July 2010.



FIGURE 2.5 Street addresses of homes with indoor air sampling in August 2010.

3 Results and Discussion

3.1 Groundwater Level Data

Groundwater levels were measured manually on October 20, 2009, April 22, 2010, and October 2, 2010, in each of the wells being monitored automatically, in conjunction with downloads of the data loggers. Depths to groundwater were also measured manually in the larger set of wells sampled for VOCs on April 8-9, 2010. The hand-measured water level data are in Table 3.1. The automatically recorded water level data are in Supplement 3 (on CD). Complete data for the download on October 20, 2009, were reported previously (Supplement 1 in the report of monitoring in 2009 [Argonne 2010]).

Hydrographs generated from the recorder data for monitoring points located on or west of the Nigh property (MW2, SB62, SB63) are in Figure 3.1; hydrographs for wells located east of the Nigh property (SB09, SB34, MW4) are in Figure 3.2. Included in Figures 3.1 and 3.2 are local precipitation data obtained from the Kansas State University weather monitoring station in Powhattan, Kansas (approximately 13 mi west-northwest of Everest). Gaps in the records for SB09 (Figure 3.2 and Supplement 3) are the result of excessive battery drainage after recharging. The absence of data for SB63 in October 2009-October 2010 (Figure 3.1 and Supplement 3) is due to failure of the recorder. Replacement recorders were not available because of commitments at other sites.

Figures 3.1 and 3.2 indicate little net change in the groundwater levels at Everest during the period of record. However, the hydrographs for all of the monitored wells depict a consistent, seasonal pattern of (1) rising groundwater levels in association with spring and early summer rains, (2) falling groundwater levels during the later summer and early fall, and (3) relatively stable groundwater elevations during the winter and early spring. Figures 3.1 and 3.2 demonstrate that the relative impact of the spring and early summer recharge events is greatest at the monitored locations in the eastern portion of the study area. The effect decreases progressively within the Everest aquifer unit at locations west of the Nigh property. These observations mirror similar, longer-term patterns in the fluctuations of groundwater levels at this site, as documented previously (Argonne 2008, 2010).

Argonne's investigations (Argonne 2003, 2006a,b) determined that groundwater flow in the Everest aquifer unit occurs at a relatively low rate, in association with estimated hydraulic

conductivities for this interval that are generally < 3 ft/day. The flow is driven primarily by groundwater recharge to the southeast of the former CCC/USDA facility and by discharge along the lower (perennial) reaches of the creek southwest of the Nigh property, resulting in a relatively stable pattern of groundwater flow across the investigation area. The detailed pathways of groundwater flow and contaminant migration are influenced, however, by hydrogeologic heterogeneity in the aquifer unit, particularly by a region of reduced sand content and hence decreased permeability near the Nigh property. Figure 3.3 shows the configuration of the potentiometric surface at the site, as determined from manual groundwater level measurements on April 8-9, 2010. Comparison with Figure 1.5 for April 1-9, 2008, and Figure 1.6 for April 25-27, 2009, demonstrates that the potentiometric surface — and hence the apparent groundwater flow pattern influencing the contaminant distribution — has remained consistent with the above interpretation.

The automatic and manual groundwater level measurements made at Everest since November 2002 have demonstrated a consistent groundwater flow pattern with only transient seasonal variations in the magnitude (but not the direction) of the hydraulic gradients. As a result, the decision was made to suspend automatic water level monitoring at Everest and thereby reduce monitoring costs and effort. After a final data download on October 1, 2010, plus hand measurements for the six wells equipped with data loggers, the recorders were removed from the wells on the same day. Manual water level measurements will continue to be made in conjunction with groundwater sampling in the larger set of wells shown in Figure 2.2.

3.2 Groundwater Analysis Results

The analytical data for VOCs and the field-measured parameters for the groundwater samples collected on April 8-9, 2010, are in Tables 3.2 and 3.3, respectively, together with previous data for these wells. The April 2010 data for carbon tetrachloride and chloroform are illustrated in Figures 3.4 and 3.5, respectively.

Table 3.3 indicates that the dissolved oxygen (DO) levels and oxidation-reduction potential (ORP) values have remained relatively consistent over the period of record, aside from the anomalously negative ORP values recorded in April 2009 at several wells. This discrepancy was traced to a faulty ORP sensor in one of two instrument probes employed for the determination of field parameters during the April 2009 sampling event. The associated DO values for these samples and all other field parameter measurements for the April 2009 sampling

event were analytically acceptable, and the issue did not affect the VOCs results. The problem with the ORP sensor was rectified prior to the April 2010 sampling, and anomalous ORP results did not recur. Overall, the results indicate that no significant changes in the chemical and biological environment within the Everest aquifer have occurred.

In April 2010, carbon tetrachloride was detected in groundwater at 13 of the 16 monitoring points sampled (Table 3.2 and Figure 3.4), at concentrations ranging from an estimated value of 0.4 μg/L (at SB63; below the purge-and-trap method quantitation limit of 1.0 μg/L) to 253 μg/L (at MW4). Chloroform was also identified at 8 of the 13 locations where carbon tetrachloride was detected (Table 3.2 and Figure 3.5), at concentrations ranging from an estimated value of 0.5 μg/L (at MW3 and SB34) to 7.6 μg/L (at SB88).

Table 3.2 indicates minor increases or decreases in carbon tetrachloride concentrations in April 2010 relative to previous results. The observed fluctuations in concentrations over time have not resolved into persistent decreasing or increasing trends in carbon tetrachloride levels within the main body of the plume. Even where increases have occurred recently, the present contaminant levels are less than or comparable to those observed in 2001-2002 sampling at most of the equivalent locations along the plume migration pathway (Figure 1.1).

The presence of slightly elevated levels of carbon tetrachloride at two locations immediately adjacent to the intermittent creek along the inferred downgradient pathway for the plume (Figure 3.6) is, however, noteworthy. The increases at these two locations were small (from not detected to an estimated value of 0.4 μg/L at SB63, and from not detected to a value of 2.3 μg/L at SB64). Carbon tetrachloride levels at SB62, somewhat farther from the intermittent creek, increased from 1.7 μg/L in 2009 to 4.0 μg/L in 2010 (Table 3.2 and Figures 3.4 and 3.6). No corresponding increases in chloroform levels were observed (Table 3.2 and Figure 3.5). Additional monitoring wells were proposed in this area in 2007 (Argonne 2007; see Appendix D), and the KDHE (2007b) provided comments (also in Appendix D). The proposed wells were not installed because of difficulties in obtaining access. Figure 3.7 illustrates the locations proposed in 2007 (Figures 1 and 3 in Appendix D) relative to the plume configuration based on the April 2010 data.

Comparison of Figure 3.6 with earlier plume depictions over the years (Figures 1.1-1.4) suggests that the carbon tetrachloride levels detected at sampling locations near the downgradient toe of the contaminant distribution (e.g., location SB62) and along the northwestern edge of the

plume (e.g., SB49) have increased somewhat. The plume has been interpreted as expanding in these directions over time. These observations are in qualitative agreement with the very slow groundwater movement and contaminant migration previously identified at this site (Argonne 2003, 2006a,b, 2008, 2010).

3.3 Surface Water Analysis Results

The results of VOCs analyses of the surface water samples collected on April 8, 2010, are in Table 3.4. As shown, no carbon tetrachloride or chloroform was detected (at the purge-and-trap method quantitation limit of 1.0 µg/L) at any of the surface water sampling locations (Figure 2.3) along the intermittent creek downgradient from the identified groundwater plume.

3.4 Vegetation Analysis Results

The results of VOCs analyses of the vegetation samples collected on July 28, 2010, are in Table 3.5. No carbon tetrachloride or chloroform was detected (at method detection limits of 0.4 µg/kg and 0.75 µg/kg, respectively) in the natural vegetation at any of the locations sampled (Figure 2.4). The vegetation results are therefore consistent with the absence of identified contamination in surface water (Section 3.3). Together, the results of the surface water and vegetation analyses indicate that the carbon tetrachloride contamination identified at Everest has, to date, not impacted shallow groundwater in the immediate vicinity of the intermittent creek or the surface waters of the creek itself.

3.5 Indoor Air Analysis Results

The analytical results for the indoor air sampling conducted on August 11-12, 2010, are in Table 3.6. No carbon tetrachloride was detected in the 10 homes to which access was granted. Chloroform was identified above the method detection limit at 837 Main Street (2.5 µg/m³, first floor) and at 620 Hickory Circle (2.3 µg/m³ in the basement and 2.9 µg/m³ on the first floor). These locations (Figure 2.5) are directly east or across Main Street from the former CCC/USDA facility. The presence of chloroform at elevated levels in the absence of any indication of carbon tetrachloride is inferred to indicate a source internal to the home itself and is probably related to common household cleaning products. The results of the investigation indicate no potential

threat to human health due to contaminants in indoor air resulting from activities at the former CCC/USDA facility.

TABLE 3.1 Hand-measured water levels, October 2009 to October 2010.

	Elevation (ft AMSL) at Monitoring Location Indicated							
Date	SB09	SB34	SB49	SB60	SB62	SB63	SB64	SB72
Reference	1138.94	1131.73	1132.48	1144.11	1121.22	1104.75	1098.36	1112.53
10/20/09	1114.96	1123.31			1090.65	1083.45		
4/8-9/10	1119.24	1122.57	1095.83	1096.41	1095.62	1088.04	1081.06	1085.43
4/22/10	1120.32	1122.31			1093.35	1088.53		
10/1/10	1117.73	1120.02			1091.81	1085.15		

	Elevation (ft AMSL) at Monitoring Location Indicated							
Date	SB77	SB78	SB80	SB88	MW1	MW2	MW3	MW4
Reference	1124.57	1118.22	1149.72	1151.02	1127.08	1151.68	1144.92	1148.93
10/20/09						1102.28		1107.9
4/8-9/10	1084.32	1093.22	1107.42	1106.92	1122.58	1105.28	1114.32	1112.73
4/22/10						1106.60		1114.34
10/1/10						1104.12		1110.43

TABLE 3.2 Analytical results for VOCs in groundwater samples collected in 2001-2010 at monitoring wells in the approved monitoring network.

					Concentration (µg/L)		
Location	Sample	Sample Date	Depth (ft BGL)	Sample Type[a]	Carbon Tetrachloride	Chloroform	Methylene Chloride
MW1	EVMW1-W-20103	3/23/06	41-51	MW	2.0	0.4 J[b]	ND[c]
MW1	EVMW1-W-23441	4/1/08	41-51	MW	1.6	0.5 J	ND
MW1	EVMW1-W-26326	4/25/09	41-51	MW	38	3.2	ND
MW1	EVMW1-W-29743	4/8/10	41-51	MW	59	4.8	ND
MW2	EVMW2-W-23442	4/9/08	59-79	MW	47	1.0	ND
MW2	EVMW2-W-26327	4/26/09	59-79	MW	101	2.1	ND
MW2	EVMW2-W-29744	4/8/10	59-79	MW	124	3.3	ND
MW2	EVMW2-W-29744DUP[d]	4/8/10	59-79	MW	129	3.1	ND
MW3	EVMW3-W-23443	4/1/08	56.5-71.5	MW	7.6	0.3 J	ND
MW3	EVMW3-W-26328	4/25/09	56.571.5	MW	9.1	0.4 J	ND
MW3	EVMW3-W-29745	4/8/10	56.571.5	MW	13	0.5 J	ND
MW4	EVMW4-W-20117	3/23/06	48.5-68.5	MW	316	13	ND
MW4	EVMW4-W-23444	4/2/08	48.5-68.5	MW	244	7.9	ND
MW4	EVMW4-W-29746	4/9/10	48.5-68.5	MW	245	8.4	ND
MW4	EVMW4-W-29746DUP[d]	4/9/10	48.5-68.5	MW	253	8.8	ND
SB09	EVSB09-W-20098	3/22/06	51-57	CPT/P	90	5.1	ND
SB09	EVSB09-W-23448	4/9/08	51-57	CPT/P	51	2.3	ND
SB09	EVSB09-W-26330	4/26/09	51-57	CPT/P	114	5.4	ND
SB09	EVSB09-W-29747	4/9/10	51-57	CPT/P	72	4.9	ND
SB09	EVSB09-W-29747DUP[d]	4/9/10	51-57	CPT/P	75	5.3	ND
SB09	EVSB09DUP-W-29760[d]	4/9/10	51-57	CPT/P	63	4.5	ND
SB34	EVSB34-W-12857	3/28/01	46-49	CPT	2.2	1.3	ND
SB34	EVSB34-W-12854	3/28/01	49-53	CPT	ND	ND	ND
SB34	EVSB34-W-20097	3/22/06	46-53	CPT/P	29	8.6	ND
SB34	EVSB34-W-23451	4/9/08	46-53	CPT/P	3.2	1.1	ND
SB34	EVSB34-W-26331	4/26/09	46-53	CPT/P	4.4	1.9	ND
SB34	EVSB34-W-29748	4/9/10	46-53	CPT/P	2.7	0.5 J	ND
SB49	EVSB49-W-20095	3/22/06	51-55	CPT/P	0.9 J	ND	ND
SB49	EVSB49-W-23452	4/8/08	51-55	CPT/P	2.1	ND	ND
SB49	EVSB49-W-26332	4/26/09	51-55	CPT/P	3.2	ND	ND
SB49	EVSB49-W-29749	4/8/10	51-55	CPT/P	3.3	ND	ND
SB60	EVSB60-W-23453	4/2/08	56.7-61.7	CPT/P	67	2.1	ND
SB60	EVSB60-W-26333	4/26/09	56.7-61.7	CPT/P	112	3.7	ND
SB60	EVSB60-W-29450	4/8/10	56.7-61.7	CPT/P	86	3.2	ND
SB62	EVSB62-W-20088	3/21/06	33-41	CPT/P	0.7 J	ND	ND
SB62	EVSB62-W-23454	4/2/08	33-41	CPT/P	0.3 J	ND	ND
SB62	EVSB62-W-26334	4/25/09	33-41	CPT/P	1.7	ND	ND
SB62	EVSB62-W-29751	4/9/10	33-41	CPT/P	4.0	ND	ND
SB63	EVSB63-W-20087	3/21/06	20-25	CPT/P	ND	ND	ND
SB63	EVSB63-W-23455	4/2/08	20-25	CPT/P	ND	ND	ND
SB63	EVSB63-W-26335	4/25/09	20-25	CPT/P	ND	ND	ND
SB63	EVSB63-W-29752	4/9/10	20-25	CPT/P	0.4 J	ND	ND

TABLE 3.2 (Cont.)

Location	Sample	Sample Date	Depth (ft BGL)	Sample Type[a]	Concentration (µg/L) Carbon Tetrachloride	Chloroform	Methylene Chloride
SB64	EVSB64-W-20086	3/21/06	22-27	CPT/P	ND	ND	ND
SB64	EVSB64-W-23456	4/2/08	22-27	CPT/P	ND	ND	ND
SB64	EVSB64-W-26336	4/25/09	22-27	CPT/P	ND	ND	ND
SB64	EVSB64-W-29753	4/9/10	22-27	CPT/P	2.3	ND	ND
SB72	EVSB72-W-20100	3/23/06	32-42	CPT/P	0.4 J	ND	ND
SB72	EVSB72-W-23458	4/9/08	32-42	CPT/P	ND	ND	ND
SB72	EVSB72-W-26337	4/25/09	32-42	CPT/P	ND	ND	ND
SB72	EVSB72-W-29754	4/8/10	32-42	CPT/P	ND	ND	ND
SB72	EVSB72DUP-W-29759[d]	4/8/10	32-42	CPT/P	ND	ND	ND
SB77	EVSB77-W-20090	3/21/06	40-55	CPT/P	ND	ND	ND
SB77	EVSB77-W-23459	4/1/08	40-55	CPT/P	ND	ND	ND
SB77	EVSB77-W-26338	4/26/09	40-55	CPT/P	ND	ND	ND
SB77	EVSB77-W-29455	4/8/10	40-55	CPT/P	ND	ND	ND
SB78	EVSB78-W-20107	3/24/06	30-40	CPT/P	ND	ND	ND
SB78	EVSB78-W-23460	4/1/08	30-40	CPT/P	ND	ND	ND
SB78	EVSB78-W-26339	4/26/09	30-40	CPT/P	ND	ND	ND
SB78	EVSB78-W-29756	4/8/10	30-40	CPT/P	ND	ND	ND
SB80	EVSB80-W-20127	3/24/06	46.2-70.7	CPT/P	0.3 J	ND	ND
SB80	EVSB80-W-23463	4/2/08	46.2-70.7	CPT/P	0.8 J	ND	ND
SB80	EVSB80-W-26340	4/25/09	46.2-70.7	CPT/P	1.3	ND	ND
SB80	EVSB80-W-29757	4/8/10	46.2-70.7	CPT/P	1.7	ND	ND
SB88	EVSB88-W-20124	3/24/06	62-72	CPT/P	114	3.2	ND
SB88	EVSB88-W-23464	4/8/08	62-72	CPT/P	159	5.0	ND
SB88	EVSB88-W-26341	4/26/09	62-72	CPT/P	234	7.9	ND
SB88	EVSB88-W-29758	4/8/10	62-72	CPT/P	212	7.6	ND
QC	EVQCIR-W-29761[d]	4/8/10	–	RI	ND	ND	ND
QC	EVQCTB-W-29763[d]	4/8/10	–	TB	ND	ND	ND
QC	EVQCIR-W-29762[d]	4/9/10	–	RI	ND	ND	ND
QC	EVQCTB-W-29764[d]	4/9/10	–	TB	ND	ND	ND
			–				

[a] Sample types: CPT, cone penetrometer; CPT/P, piezometer; MW, monitoring well; RI, rinsate; TB, trip blank.

[b] J, estimated concentration less than the purge-and-trap method quantitation limit of 1.0 µg/L.

[c] ND, not detected at an instrument detection limit of 0.1 µg/L.

[d] Quality control sample during the April 2010 sampling event.

TABLE 3.3 Laboratory parameter results for groundwater samples collected in 2001-2010 at monitoring wells in the approved monitoring network.

Location	Sample	Sample Date	Depth (ft BGL)	Sample Type[a]	Temperature (°C)	pH	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Carbon Dioxide (mg/L)	Iron(II) (mg/L)
MW1	EVMW1-W-20103	3/23/06	41-51	MW	13.1	7.26	1236	–	–	–	–
MW1	EVMW1-W-23441	4/1/08	41-51	MW	9.9	6.89	1251	2.06	201	–	0.00
MW1	EVMW1-W-26326	4/25/09	41-51	MW	13.0	6.85	1039	1.87	167	–	–
MW1	EVMW1-W-29743	4/8/10	41-51	MW	11.9	6.78	945	1.87	96	–	–
MW2	EVMW2-W-23442	4/9/08	59-79	MW	12.7	7.51	693	6.08	173	–	0.01
MW2	EVMW2-W-26327	4/26/09	59-79	MW	17.3	7.14	585	5.46	173	–	–
MW2	EVMW2-W-29744	4/8/10	59-79	MW	15.2	7.12	555	6.33	256	–	0.00
MW2	EVMW2-W-29744DUP[b]	4/8/10	59-79	MW							
MW3	EVMW3-W-23443	4/1/08	56.5-71.5	MW	11.0	7.18	746	2.65	150	–	0.18
MW3	EVMW3-W-26328	4/25/09	56.5-71.5	MW	13.5	7.36	660	2.88	-82	–	–
MW3	EVMW3-W-29745	4/8/10	56.5-71.5	MW	13.3	6.91	564	2.93	-2	–	0.04
MW4	EVMW4-W-20117	3/23/06	48.5-68.5	MW	12.8	7.17	675	0.40	218	25	0.21
MW4	EVMW4-W-23444	4/2/08	48.5-68.5	MW	9.7	7.25	817	3.03	185	–	0.00
MW4	EVMW4-W-29746	4/9/10	48.5-68.5	MW	13.1	7.13	628	2.81	178	–	0.00
MW4	EVMW4-W-29746DUP[b]	4/9/10	48.5-68.5	MW	–	–	–	–	–	–	–
SB09	EVSB09-W-20098	3/22/06	51-57	CPT/P	10.2	7.42	862	–	–	–	–
SB09	EVSB09-W-23448	4/9/08	51-57	CPT/P	9.0	7.36	616	2.71	186	–	0.00
SB09	EVSB09-W-26330	4/26/09	51-57	CPT/P	13.5	7.05	692	2.22	210	–	–
SB09	EVSB09-W-29747	4/9/10	51-57	CPT/P	19.0	6.97	612	3.91	223	–	0.01
SB09	EVSB09-W-29747DUP[b]	4/9/10	51-57	CPT/P	–	–	–	–	–	–	–
SB09	EVSB09DUP-W-29760[b]	4/9/10	51-57	CPT/P	–	–	–	–	–	–	–
SB34	EVSB34-W-12857	3/28/01	46-49	CPT	14.7	7.87	767	–	–	–	–
SB34	EVSB34-W-12854	3/28/01	49-53	CPT	13.2	7.57	757	–	–	–	–
SB34	EVSB34-W-20097	3/22/06	46-53	CPT/P	11.3	7.31	781	–	–	–	–
SB34	EVSB34-W-23451	4/9/08	46-53	CPT/P	10.5	7.08	924	0.98	178	–	0.05
SB34	EVSB34-W-26331	4/26/09	46-53	CPT/P	13.6	7.18	858	1.62	-146	–	–
SB34	EVSB34-W-29748	4/9/10	46-53	CPT/P	13.9	6.79	769	1.10	131	–	0.00

TABLE 3.3 (Cont.)

Location	Sample	Sample Date	Depth (ft BGL)	Sample Type[a]	Temperature (°C)	pH	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Carbon Dioxide (mg/L)	Iron(II) (mg/L)
SB49	EVSB49-W-20095	3/22/06	51-55	CPT/P	11.3	7.15	649	–	–	–	–
SB49	EVSB49-W-23452	4/8/08	51-55	CPT/P	9.4	7.68	618	3.79	136	–	0.04
SB49	EVSB49-W-26332	4/26/09	51-55	CPT/P	15.5	7.54	583	6.70	-140	–	–
SB49	EVSB49-W-29749	4/8/10	51-55	CPT/P	14.1	7.14	505	5.02	58	–	0.12
SB60	EVSB60-W-23453	4/2/08	56.7-61.7	CPT/P	14.7	7.58	660	4.10	211	–	0.00
SB60	EVSB60-W-26333	4/26/09	56.7-61.7	CPT/P	17.4	7.16	630	5.26	179	–	–
SB60	EVSB60-W-29450	4/8/10	56.7-61.7	CPT/P	17.8	7.18	623	5.80	240	–	0.00
SB62	EVSB62-W-20088	3/21/06	33-41	CPT/P	11.5	7.52	722	–	–	–	–
SB62	EVSB62-W-23454	4/2/08	33-41	CPT/P	7.0	7.75	761	4.33	221	–	0.00
SB62	EVSB62-W-26334	4/25/09	33-41	CPT/P	12.0	7.24	696	6.17	156	–	–
SB62	EVSB62-W-29751	4/9/10	33-41	CPT/P	20.4	7.26	628	6.42	238	–	0.00
SB63	EVSB63-W-20087	3/21/06	20-25	CPT/P	6.5	6.92	688	–	–	–	–
SB63	EVSB63-W-23455	4/2/08	20-25	CPT/P	14.7	6.62	707	0.74	158	–	0.08
SB63	EVSB63-W-26335	4/25/09	20-25	CPT/P	12.0	6.46	606	1.01	-63	–	–
SB63	EVSB63-W-29752	4/9/10	20-25	CPT/P	18.4	6.28	505	0.35	68	–	0.00
SB64	EVSB64-W-20086	3/21/06	22-27	CPT/P	11.3	7.27	876	–	–	–	–
SB64	EVSB64-W-23456	4/2/08	22-27	CPT/P	10.5	7.07	826	1.21	169	–	0.16
SB64	EVSB64-W-26336	4/25/09	22-27	CPT/P	11.2	6.79	784	2.45	-46	–	–
SB64	EVSB64-W-29753	4/9/10	22-27	CPT/P	15.5	6.67	708	1.45	256	–	0.00
SB72	EVSB72-W-20100	3/23/06	32-42	CPT/P	12.9	7.28	586	–	–	–	–
SB72	EVSB72-W-23458	4/9/08	32-42	CPT/P	12.9	7.08	593	4.73	182	–	0.10
SB72	EVSB72-W-26337	4/25/09	32-42	CPT/P	12.7	7.01	553	5.89	163	–	–
SB72	EVSB72-W-29754	4/8/10	32-42	CPT/P	16.3	7.03	527	5.43	80	–	0.00
SB72	EVSB72DUP-W-29759[b]	4/8/10	32-42	CPT/P	–	–	–	–	–	–	–
SB77	EVSB77-W-20090	3/21/06	40-55	CPT/P	11.9	7.58	692	–	–	–	–
SB77	EVSB77-W-23459	4/1/08	40-55	CPT/P	9.9	7.60	653	5.44	163	–	0.12
SB77	EVSB77-W-26338	4/26/09	40-55	CPT/P	19.9	7.45	709	8.88	-122	–	–
SB77	EVSB77-W-29455	4/8/10	40-55	CPT/P	15.9	7.09	671	6.89	98	–	0.08

TABLE 3.3 (Cont.)

Location	Sample	Sample Date	Depth (ft BGL)	Sample Type[a]	Temperature (°C)	pH	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Carbon Dioxide (mg/L)	Iron(II) (mg/L)
SB78	EVSB78-W-20107	3/24/06	30-40	CPT/P	12.2	7.41	653	–	–	–	–
SB78	EVSB78-W-23460	4/1/08	30-40	CPT/P	10.1	7.64	621	4.74	161	–	0.00
SB78	EVSB78-W-26339	4/26/09	30-40	CPT/P	18.2	7.54	597	6.73	-134	–	–
SB78	EVSB78-W-29756	4/8/10	30-40	CPT/P	16.3	7.18	513	5.06	89	–	0.09
SB80	EVSB80-W-20127	3/24/06	46.2-70.7	CPT/P	12.3	7.14	679	3.30	212	25	0.46
SB80	EVSB80-W-23463	4/2/08	46.2-70.7	CPT/P	17.2	7.14	706	5.30	222	–	0.00
SB80	EVSB80-W-26340	4/25/09	46.2-70.7	CPT/P	15.3	7.21	592	4.78	164	–	–
SB80	EVSB80-W-29757	4/8/10	46.2-70.7	CPT/P	16.6	7.19	574	5.52	268	–	0.04
SB88	EVSB88-W-20124	3/24/06	62-72	CPT/P	12.9	6.96	717	4.58	183	25	0.46
SB88	EVSB88-W-23464	4/8/08	62-72	CPT/P	8.2	7.23	758	5.23	242	–	0.11
SB88	EVSB88-W-26341	4/26/09	62-72	CPT/P	18.0	7.16	628	4.19	182	–	–
SB88	EVSB88-W-29758	4/8/10	62-72	CPT/P	15.9	7.12	592	4.83	227	–	0.00
QC	EVQCIR-W-29761[b]	4/8/10	–	RI	–	–	–	–	–	–	–
QC	EVQCTB-W-29763[b]	4/8/10	–	TB	–	–	–	–	–	–	–
QC	EVQCIR-W-29762[b]	4/9/10	–	RI	–	–	–	–	–	–	–
QC	EVQCTB-W-29764[b]	4/9/10	–	TB	–	–	–	–	–	–	–

[a] Sample types: CPT, cone penetrometer; CPT/P, piezometer; MW, monitoring well; RI, rinsate; TB, trip blank.

[b] Quality control sample during the April 2010 sampling event.

TABLE 3.4 Analytical results for surface water samples collected in April 2009 and April 2010.

			Concentration (µg/L)	
Location	Sample	Sample Date	Carbon Tetrachloride	Chloroform
EV001	EV001-W-26320	4/24/09	ND[a]	ND
EV003	EV003-W-26321	4/24/09	ND	ND
EV005	EV005-W-26322	4/24/09	ND	ND
EV006	EV006-W-26323	4/24/09	ND	ND
EV008	EV008-W-26324	4/24/09	ND	ND
EV001	EV001-W-29738	4/8/10	ND	ND
EV003	EV003-W-29739	4/8/10	ND	ND
EV005	EV005-W-29740	4/8/10	ND	ND
EV006	EV006-W-29741	4/8/10	ND	ND
EV008	EV008-W-29742	4/8/10	ND	ND

[a] ND, not detected at an instrument detection limit of 0.1 µg/L.

TABLE 3.5 Analytical results for tree branch samples collected on July 28, 2010.

Location	Sample	Time	Height above Ground (ft)	Concentration (µg/kg) Carbon Tetrachloride	Concentration (µg/kg) Chloroform	Sample Description
EV004	EV004-B-31721	11:32	3	ND	ND	Elm down in creek (west side), approximately 100 ft from location 013. Flag.
EV005	EV005-B-31725	11:58	4	ND	ND	Pin cherry on east side, knocked down into stream bed. Still alive and healthy.
EV006	EV006-B-31729	12:09	5	ND	ND	Small cherry on east bank, south of side creek. Flag.
EV008	EV008-B-31731	12:20	6	ND	ND	Mulberry just south of 025. Flag.
EV009	EV009-B-31735	12:50	5	ND	ND	Osage orange. Flag and stake.
EV010	EV010-B-31734	12:43	3	ND	ND	Willow. Flag and stake.
EV013	EV013-B-31720	11:28	5	ND	ND	Elm on west side of creek. Northernmost creek point. Flag and stake.
EV016	EV016-B-31723	11:48	5	ND	ND	Large multistem willow on east side of creek, near outfall.
EV017	EV017-B-31727	12:07	4	ND	ND	Twin mulberries on east bank. Stake.
EV018	EV018-B-31728	12:08	2	ND	ND	Multistem small mulberry. Stake and flag.
EV019	EV019-B-31730	12:12	3	ND	ND	Small elm on east bank. Stake and flag.
EV020	EV020-B-31733	12:30	2	ND	ND	Mulberry on east bank near large pool and bend in stream. Flag. (Mud pit.)
EV021	EV021-B-31722	11:45	4	ND	ND	Ratty willow down in creek is dead. Sampled American elm 3 ft to the north.
EV022	EV022-B-31724	11:52	6	ND	ND	Osage orange on west bank; flagging.
EV024	EV024-B-31726	12:05	5	ND	ND	Elm on west bank. Stake with flag.
EV025	EV025-B-31732	12:22	0	ND	ND	Huge cottonwood on east bank. Sampled root shoots down in creek.

TABLE 3.6 Analytical results for indoor air samples collected on August 11-12, 2010.

		Concentration (µg/m^3)	
Street Address	Location	Carbon Tetrachloride	Chloroform
829 Chestnut	First floor	ND[a]	ND
	Basement	ND	ND
605 Hickory Circle	First floor	ND	ND
	Basement	ND	1.3
620 Hickory Circle	First floor	ND	2.9
	Basement	ND	2.3
636 Hickory Circle	First floor	ND	ND
	Basement	ND	ND
828 Main Street	First floor	ND	ND
	Basement	ND	1.4
837 Main Street	First floor	ND	2.5
	Basement	ND	ND
900 Main Street	First floor	ND	ND
	Basement	ND	ND
1044 Main Street	First floor	ND	ND
	Basement	ND	ND
1120 Main Street	First floor	ND	ND
1191 Prairie Road	First floor	ND	2.0
	Basement	ND	2.1
Ambient, MW1	–	ND	ND

[a] ND, not detected at a method reporting limit of 1.3 µg/m^3 for carbon tetrachloride or 0.98 µg/m^3 for chloroform.

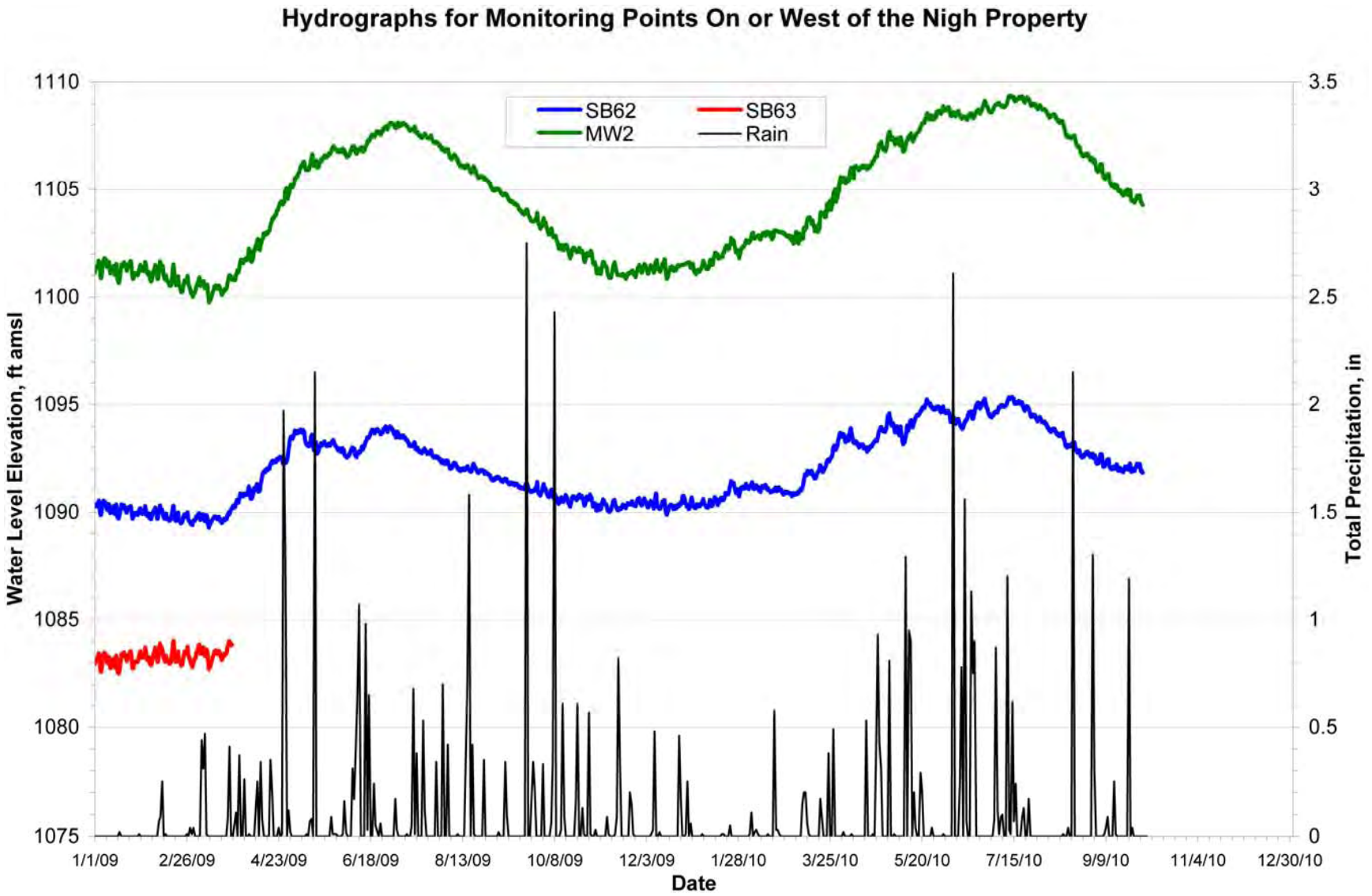


FIGURE 3.1 Hydrographs for monitoring points on or west of the Nigh property, January 2009 to October 2010.

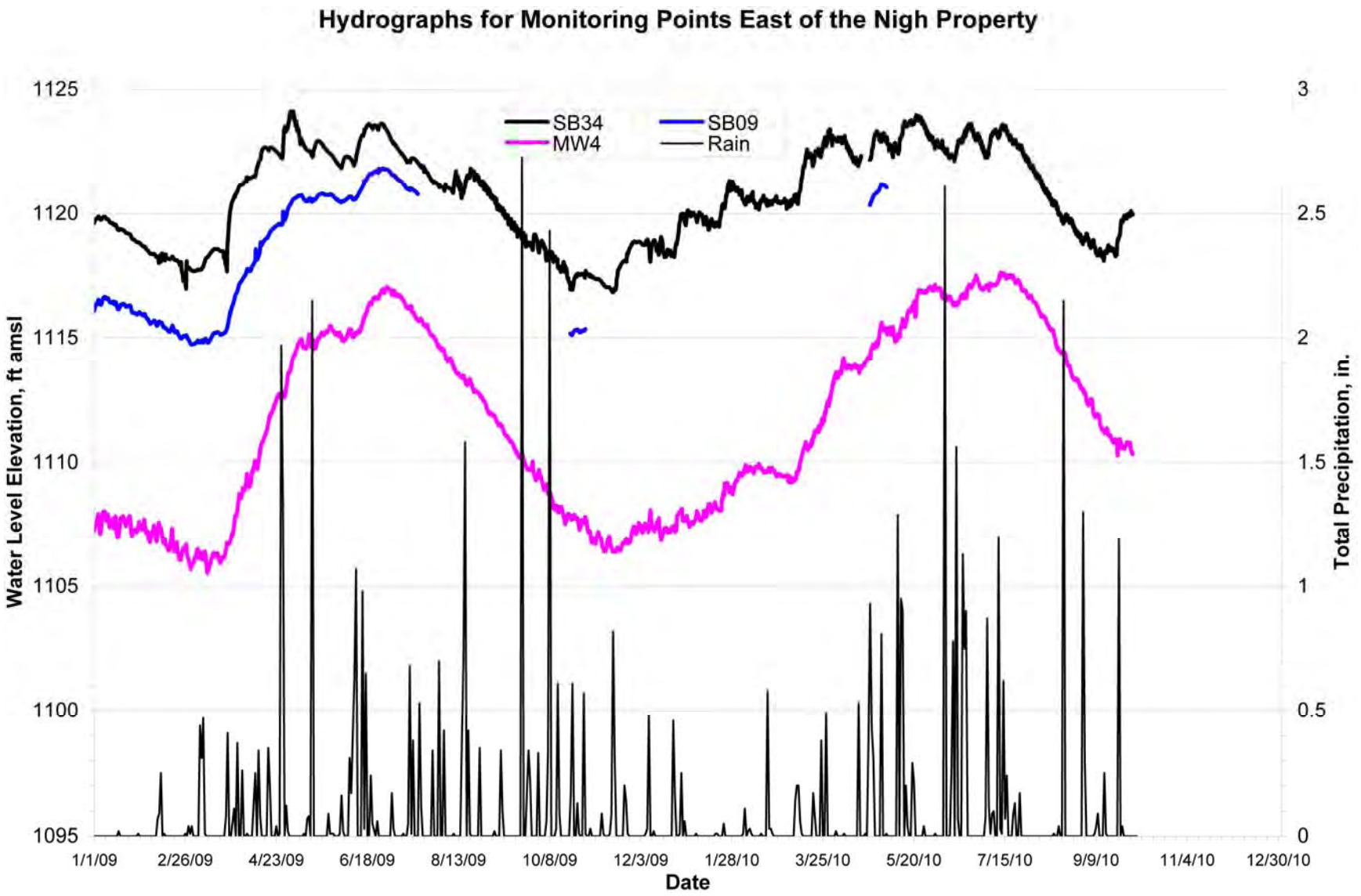


FIGURE 3.2 Hydrographs for monitoring points east of the Nigh property, January 2009 to October 2010.

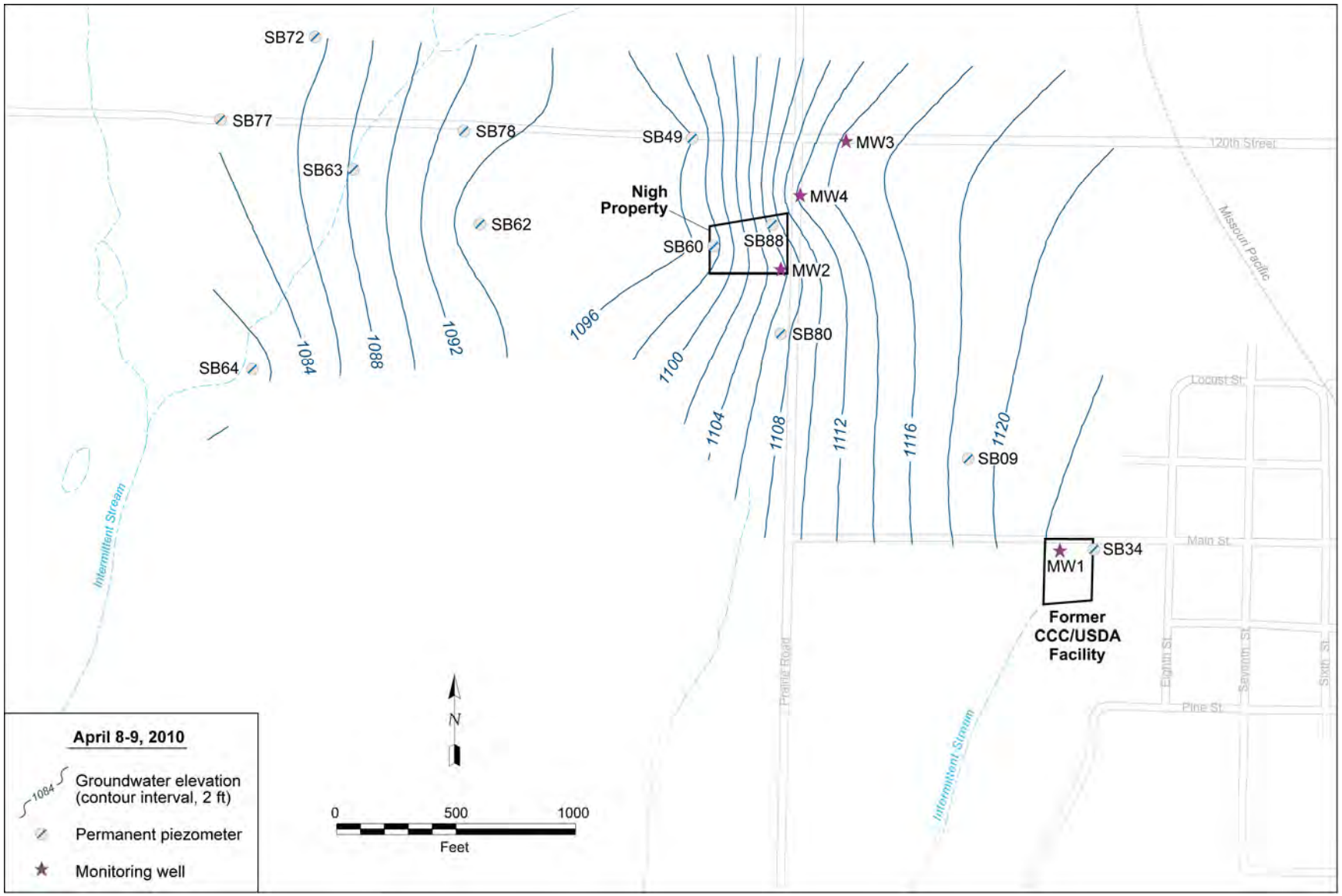


FIGURE 3.3 Potentiometric surface interpreted from groundwater levels measured on April 8-9, 2010.

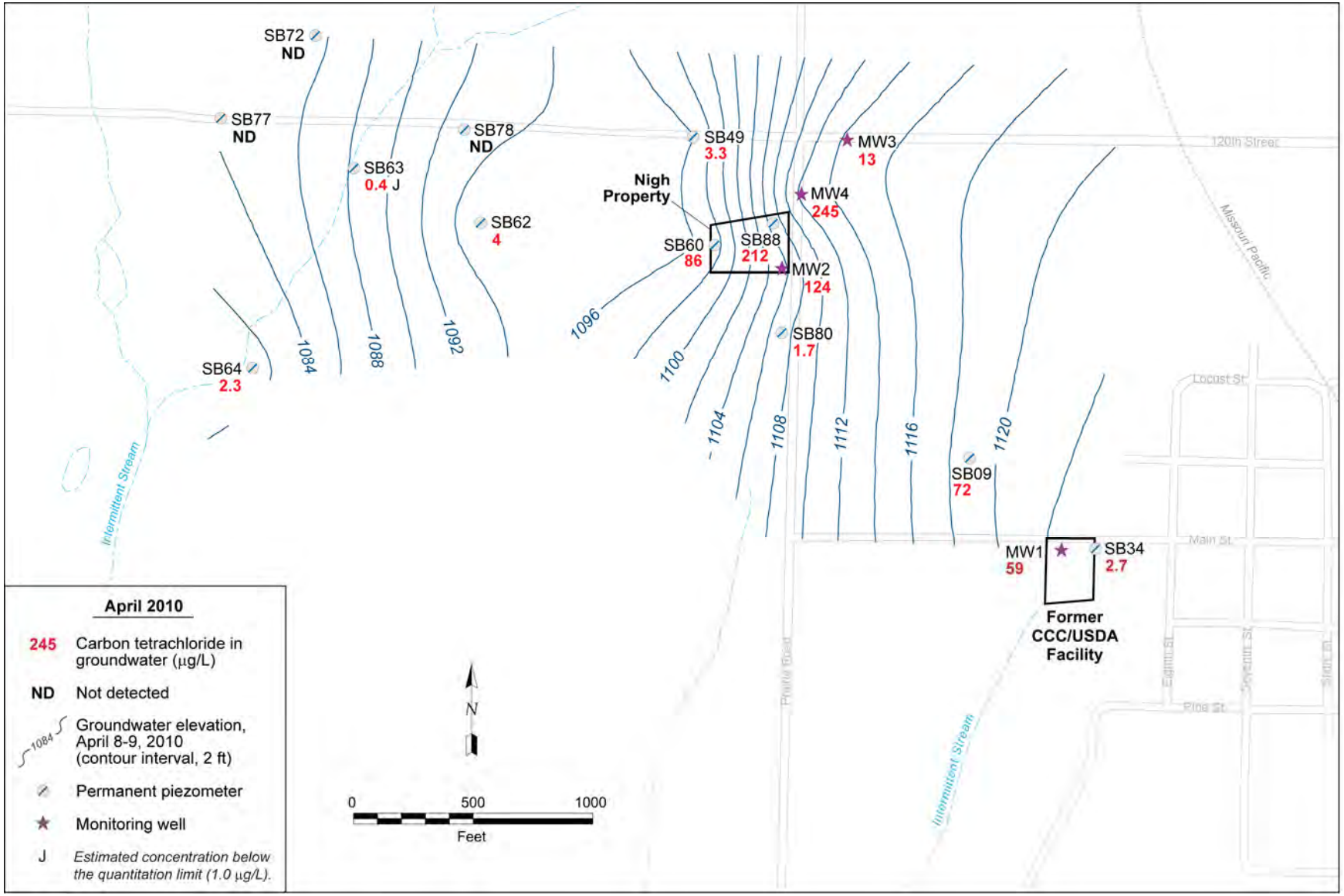


FIGURE 3.4 Lateral distribution of carbon tetrachloride in groundwater in April 2010.

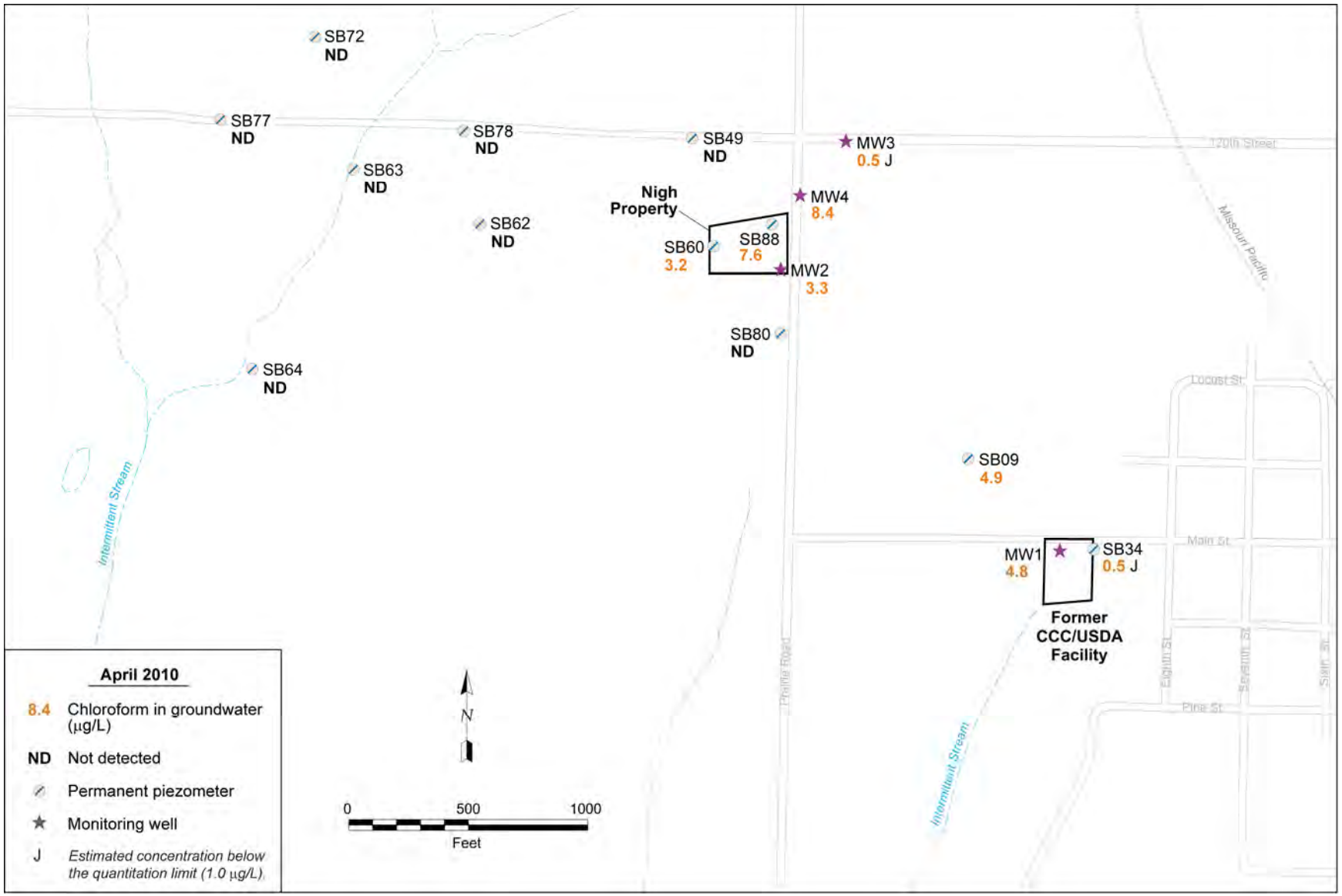


FIGURE 3.5 Lateral distribution of chloroform in groundwater in April 2010.

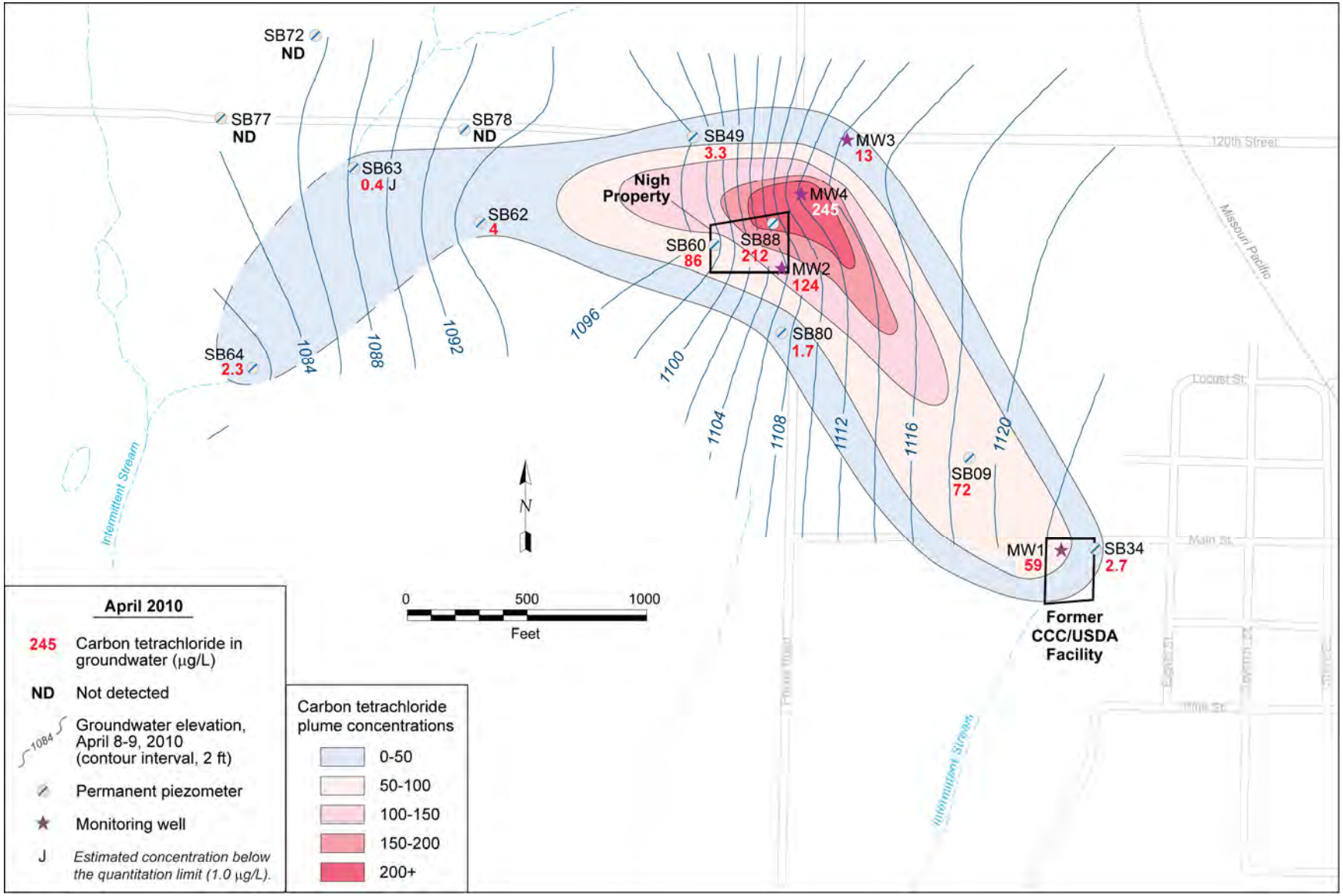


FIGURE 3.6 Interpreted carbon tetrachloride contaminant plume in groundwater at Everest, for data collected in April 2010.

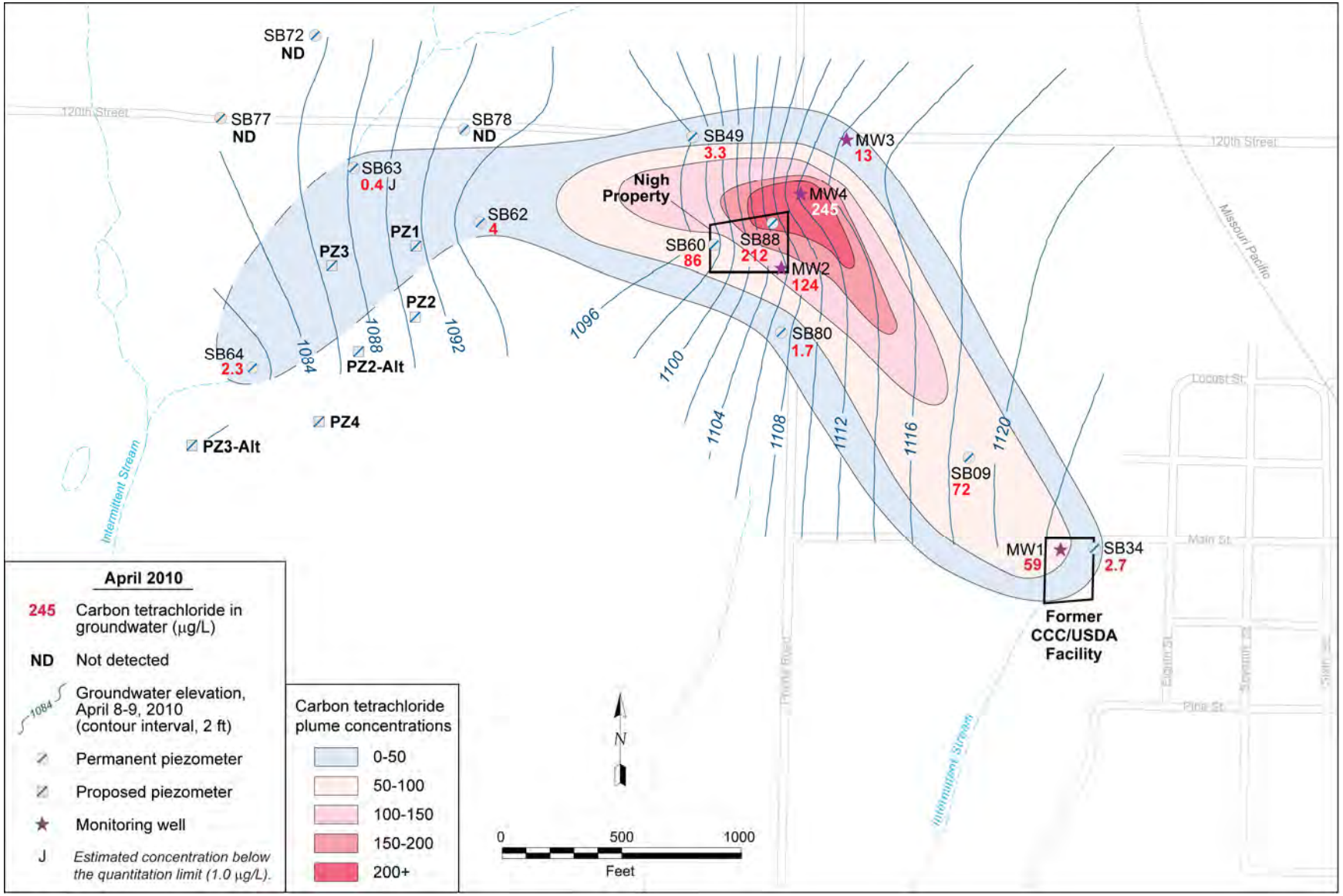


FIGURE 3.7 Locations for new monitoring wells proposed in 2007 in relation to the contaminant plume configuration as interpreted for data collected in April 2010.

4 Conclusions and Recommendations

4.1 Conclusions

The findings of the April 2010 monitoring event at Everest support the following conclusions:

- Measurements of groundwater levels obtained manually and through the use of automatic recorders have consistently indicated an apparent direction of groundwater flow initially to the north-northwest from the former CCC/USDA facility and toward the Nigh property, and then west-southwest from the Nigh property toward the intermittent creek that lies west of the former CCC/USDA facility and the Nigh property.

- Only minor changes in carbon tetrachloride concentrations in groundwater were identified within the main body of the plume in April 2010, relative to the April 2009 results. Even where increases occurred, the present contaminant levels were less than or comparable to those observed in 2001-2002 sampling at most equivalent locations along the plume migration pathway (Argonne 2001, 2003). The variable Everest groundwater results to date suggest that definitive identification of decreasing or increasing trends in the carbon tetrachloride levels at these locations is problematic because of concentration fluctuations over time.

- The small increases in carbon tetrachloride concentrations observed in April 2010 at two locations (SB63 and SB64) are of interest because of the locations' proximity to the downgradient intermittent creek. The wide separation of the present monitoring points near these locations offers limited opportunity for finer resolution of the migration pathway.

- The results of the April 2010 monitoring event continue to support the interpretation, made during the 9-yr observation period from 2001 to 2010, that the migration rate for contamination in groundwater toward the intermittent creek is very slow.

- No carbon tetrachloride was detected in 5 samples of surface water collected from the intermittent creek west of the former CCC/USDA facility and the Nigh property, or in tree branch tissue samples collected at 16 locations along the banks of the creek. These observations indicate that the carbon tetrachloride contamination identified at Everest has, to date, not impacted the surface waters of the intermittent creek.

- Results of indoor air sampling conducted in 10 homes on August 11-12, 2010, indicate no potential threat to human health due to contaminated indoor air as a result of activities at the former CCC/USDA facility.

4.2 Recommendations

The findings of the April 2010 monitoring event at Everest support the following recommendations:

- In view of the slow migration of contamination in the groundwater documented during the 9-yr observation period from 2001 to 2010, the present (annual) KDHE-approved frequency for monitoring of the groundwater and surface waters at this site remains protective of human health and the environment.

- Because of the consistency of groundwater level measurements made in 2002-2010, removal of the automatic recorders from the Everest water level monitoring network was determined to be warranted. All future water level determinations will be hand measurements made at the time of the annual groundwater sampling.

- The presence of slightly elevated levels of carbon tetrachloride at two locations immediately adjacent to the intermittent creek along the inferred downgradient pathway for the plume will be verified during subsequent monitoring events.

- Because of the indications of slightly increased carbon tetrachloride concentrations in groundwater near the intermittent creek, it is appropriate for the CCC/USDA to renew its efforts to obtain access for installation of additional monitoring wells in this area, as proposed in May 2007 (Argonne 2007; see Appendix D). The KDHE (2007b) request for modifications to the proposed locations is also in Appendix D. Before access negotiations begin, the CCC/USDA and the KDHE should reevaluate the proposed locations and the suggested modifications in light of the April 2010 and pending 2011 results.

- In keeping with the approved monitoring plan, the next annual groundwater sampling event will occur in April 2011. As recommended in the report of 2009 monitoring (Argonne 2010) and with KDHE (2010b) approval, sampling at monitoring points SB72 and SB77 will be discontinued.

- Surface water and vegetation sampling during the spring and summer of 2011 will be protective in identifying any potential effects in surface water or in vegetation along the intermittent creek.

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Appendix A:

Sequence of Sampling Activities during the 2010 Annual Monitoring Event at Everest

TABLE A.1 Sequence of sampling activities during the April 2010 annual groundwater monitoring event.

Sample Date	Time	Sample	Type[a]	Location	Depth (ft BGL)	Chain of Custody	Shipping Date	Sample Description
4/8/10	9:17	EV001-W-29738	SW	EV001	–	2622	4/8/10	Water sample from creek.
4/8/10	9:30	EV005-W-29740	SW	EV005	–	2622	4/8/10	Water sample from creek.
4/8/10	9:34	EV006-W-29741	SW	EV006	–	2622	4/8/10	Water sample from creek.
4/8/10	9:38	EV008-W-29742	SW	EV008	–	2622	4/8/10	Water sample from creek.
4/8/10	10:10	EV003-W-29739	SW	EV003	–	2622	4/8/10	Water sample from creek.
4/8/10	12:20	EVMW3-W-29745	MW	MW3	56.5-71.5	2622	4/8/10	Depth to water = 30.60 ft. Depth of 2-in. well = 71.5 ft. Sample collected by using low-flow bladder pump positioned at 64 ft after purging of 8 L. Aliquot collected for verification organic analysis at TestAmerica.
4/8/10	12:56	EVSB80-W-29757	CPT/P	SB80	46.2-70.7	2622	4/8/10	Depth to water = 42.3 ft. Depth of 1-in. well = 70.7 ft. Sample collected by using low-flow bladder pump positioned at 58.45 ft after purging of 0.5 L.
4/8/10	13:30	EVSB49-W-29749	CPT/P	SB49	51-55	2622	4/8/10	Depth to water = 36.65 ft. Depth of 1-in. well = 55 ft. Sample collected by using low-flow bladder pump positioned at 53 ft after purging of 3 L.
4/8/10	14:40	EVSB78-W-29756	CPT/P	SB78	30-40	2622	4/8/10	Depth to water = 25.0 ft. Depth of 1-in. well = 40 ft. Sample collected by using low-flow bladder pump positioned at 35 ft after purging of 2.5 L. Aliquot collected for verification organic analysis at TestAmerica.
4/8/10	14:50	EVMW2-W-29744	MW	MW2	59-79	2622	4/8/10	Depth to water = 46.4 ft. Depth of 4-in. well = 79 ft. Sample collected by using low-flow bladder pump positioned at 69 ft after purging of 8 L. Aliquot collected for verification organic analysis at TestAmerica.
4/8/10	16:10	EVSB77-W-29455	CPT/P	SB77	40-55	2622	4/8/10	Depth to water = 40.25 ft. Depth of 1-in. well = 55 ft. Sample collected by using low-flow bladder pump positioned at 47.5 ft after purging of 2 L.
4/8/10	16:18	EVSB60-W-29450	CPT/P	SB60	56.7-61.7	2622	4/8/10	Depth to water = 47.7 ft. Depth of 1-in. well = 61.7 ft. Sample collected by using low-flow bladder pump positioned at 59.2 ft after purging of 1.5 L.
4/8/10	16:19	EVQCIR-W-29761[b]	RI	QC	–	2622	4/8/10	Rinsate of decontaminated flow line after collection of sample EVSB77-W-29455.
4/8/10	17:22	EVSB72-W-29754	CPT/P	SB72	32-42	2622	4/8/10	Depth to water = 27.1 ft. Depth of 1-in. well = 42 ft. Sample collected by using low-flow bladder pump positioned at 37 ft after purging of 2 L.
4/8/10	17:24	EVSB72DUP-W-29759[b]	CPT/P	SB72	32-42	2622	4/8/10	Replicate of sample EVSB72-W-29754.

TABLE A.1 (Cont.)

Sample Date	Time	Sample	Type[a]	Location	Depth (ft BGL)	Chain of Custody	Shipping Date	Sample Description
4/8/10	18:00	EVQCTB-W-29763[b]	TB	QC	–	2622	4/8/10	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on chain-of-custody form (COC) 2622.
4/8/10	18:21	EVSB88-W-29758	CPT/P	SB88	62-72	2622	4/8/10	Depth to water = 44.1 ft. Depth of 1-in. well = 72 ft. Sample collected by using low-flow bladder pump positioned at 67 ft after purging of 1.25 L. Aliquot collected for verification organic analysis at TestAmerica.
4/8/10	18:35	EVMW1-W-29743	MW	MW1	41-51	2627	4/10/10	Depth to water = 4.5 ft. Depth of 4-in. well = 51 ft. Sample collected by using low-flow bladder pump positioned at 46 ft after purging of 7 L.
4/9/10	10:24	EVMW4-W-29746	MW	MW4	48.5-68.5	2627	4/10/10	Depth to water = 36.20 ft. Depth of 2-in. well = 68.5 ft. Sample collected by using low-flow bladder pump positioned at 58.5 ft after purging of 8 L.
4/9/10	10:46	EVSB64-W-29753	CPT/P	SB64	22-27	2627	4/10/10	Depth to water = 17.3 ft. Depth of 1-in. well = 27 ft. Sample collected by using low-flow bladder pump positioned at 24.5 ft after purging of 1 L.
4/9/10	11:07	EVQCIR-W-29762[b]	RI	QC	–	2627	4/10/10	Rinsate of decontaminated flow line after collection of sample EVSB64-W-29753.
4/9/10	11:16	EVSB34-W-29748	CPT/P	SB34	46-53	2627	4/10/10	Depth to water = 9.16 ft. Depth of 1-in. well = 53 ft. Sample collected by using low-flow bladder pump positioned at 49.5 after purging of 2.5 L.
4/9/10	12:26	EVSB62-W-29751	CPT/P	SB62	33-41	2627	4/10/10	Depth to water = 25.6 ft. Depth of 1-in. well = 41 ft. Sample collected by using low-flow bladder pump positioned at 37 ft after purging of 2 L.
4/9/10	13:08	EVSB63-W-29752	CPT/P	SB63	20-25	2627	4/10/10	Depth to water = 16.71 ft. Depth of 1-in. well = 25 ft. Sample collected by using low-flow bladder pump positioned at 22.5 ft after purging of 2 L.
4/9/10	14:11	EVSB09-W-29747	CPT/P	SB09	51-57	2627	4/10/10	Depth to water = 19.7 ft. Depth of 1-in. well = 57 ft. Sample collected by using low-flow bladder pump positioned at 54 ft after purging of 1.75 L.
4/9/10	14:12	EVSB09DUP-W-29760[b]	CPT/P	SB09	51-57	2627	4/10/10	Replicate of sample EVSB09-W-29747.
4/9/10	15:00	EVQCTB-W-29764[b]	TB	QC	–	2627	4/10/10	Trip blank sent to the AGEM Laboratory for organic analysis with samples listed on COC 2627.

[a] Sample types: CPT/P, piezometer; MW, monitoring well; RI, rinsate; SW, surface water; TB, trip blank.

[b] Quality control sample.

Appendix B:

Indoor Air Sampling Plan

Final Work Plan: Indoor Air and Ambient Air Sampling near the Former CCC/USDA Grain Storage Facility in Everest, Kansas

The Commodity Credit Corporation of the U.S. Department of Agriculture (CCC/USDA) operated a grain storage facility at the western edge of Everest, Kansas, from the early 1950s to the early 1970s. Sampling by the Kansas Department of Health and Environment (KDHE) in 1997 resulted in the detection of carbon tetrachloride in one domestic well (the Nigh well) northwest of the former facility. On behalf of the CCC/USDA, Argonne National Laboratory subsequently conducted a series of investigations to characterize the contamination (Argonne 2003, 2006a,b,c).

Automatic, continuous monitoring of groundwater levels began in 2002 and is ongoing at six locations. The results have consistently indicated groundwater flow toward the north-northwest from the former CCC/USDA property to the Nigh property, then west-southwest from the Nigh property to the intermittent creek.

Sitewide periodic groundwater and surface water sampling with analysis for volatile organic compounds (VOCs) began in 2008. Argonne's combined data indicate no significant downgradient extension of contamination since 2000. At present, the sampling is annual, as approved by the KDHE (2009) in response to a plan developed for the CCC/USDA (Argonne 2009).

This document presents a plan for collecting indoor air samples in homes located along and adjacent to the defined extent of the carbon tetrachloride contamination. The plan was requested by the KDHE. Ambient air samples to represent the conditions along this pathway will also be taken.

Project Objective

The purpose of the proposed work is to satisfy KDHE requirements and to collect additional data for assessing the risk to human health due to the potential upward migration of carbon tetrachloride and its primary degradation product (chloroform) into homes located in close proximity to the former grain storage facility, as well as along and within 100 ft laterally from the currently defined plume emanating from the former Everest facility. Investigation of the indoor air environment was not a defined objective during the previous investigations of the Everest site (Argonne 2003, 2006a,b,c) as they predated the more recent regulatory concern regarding potential health risks associated with the vapor contaminant pathway.

Proposed Work: Collection of Indoor Air and Ambient Air Samples

Sampling Procedure. Indoor air samples will be collected at the designated homes. In addition, representative ambient air samples will be collected. All collection protocols will be in compliance with the KDHE (2007) vapor intrusion guidance and KDHE standard operating procedure (SOP) BER-33 (attached). Dr. Blayne Hartman (Hartman Environmental Geoscience, Solana Beach, California), a recognized expert in the field of vapor intrusion, will advise Argonne staff as to specific protocols prior to the sampling event. He will also collaborate with

Argonne and the CCC/USDA, as well as the KDHE, in interpretation of the results of the vapor intrusion investigation.

Figure 1 illustrates the current interpreted configuration of the carbon tetrachloride plume (April 2008) at and emanating from the former CCC/USDA site (Argonne 2008). Figure 2 provides a detailed view with the addresses of the homes to be sampled. Table 1 is a list of owner names and address for these residences.

Currently, 10 homes (Table 1) are proposed for sampling, on the basis of screening criteria defined in KDHE (2007) guidance. As defined in the guidance document, buildings of concern are those within 100 ft (for chlorinated VOCs) laterally or 40 ft vertically of the contamination. Figure 3 illustrates the 100-ft lateral boundary from the currently designated carbon tetrachloride plume. With the exception of the Nigh property on Prairie Road, the affected homes are located in close proximity to and directly downgradient from the former facility, along Main Street, as well as along Hickory Circle and Chestnut Street to the north. The plume, as currently constrained, trends to the northwest from the former facility and across agricultural fields with no residences, until it turns to the west in the vicinity of the Nigh property. The plume then trends to the west again across agricultural fields with no residences, toward an undifferentiated creek. The number of homes potentially affected by the shallow plume is limited, as it primarily underlies non-residential agricultural land. On the basis of groundwater level depths measured manually during sampling in April 2008, the depth to the contaminated groundwater is generally < 40 ft BGL; all measured depths were < 50 ft BGL.

Sample Location. Samplers will be placed in the basement and on the first floor of each residence, in a location of common occupancy (as allowed by the residents). Samples will be collected as close to the center of the room as possible, away from heating system registers, and at a height of 3-7 ft above the floor (in the breathing zone). Samples will be collected in Summa canisters, individually certified clean, for a period of 24 hr. Meteorological conditions will be noted and recorded. Page 1 of the KDHE Field Data Air Sampling Form (in the attached SOP BER-33) will be completed.

Ambient Air Sample. To be representative of the site, ambient air samples will be collected in an upwind location, away from obvious sources of VOCs, over the same collection period as the indoor air samples. Additional canisters will be placed to test ambient air conditions at several points along the lateral extent of the contamination.

Duplicate Air Samples. Duplicate air samples will be collected at the rate of at least one duplicate per 20 primary samples.

Sample Analysis. Air samples will be shipped to a laboratory certified for method TO-15 analysis. The samples will be analyzed for carbon tetrachloride and chloroform by method TO-15, at a detection level at or below the allowable risk-based indoor air level for each compound.

Report Deliverable

A report containing all of the data, all relevant quality assurance/quality control information, and an interpretation of the vapor intrusion risk will be submitted following completion of the fieldwork and analytical reviews.

Schedule of Field Work

After approval of this plan, the KDHE will have the opportunity to inform the community of the sampling plan. Argonne will make further contact, through its community relations staff, to coordinate the sampling effort with the aim of minimizing disruption to the residents and the community.

The work is tentatively scheduled for mid March 2010. The KDHE will be informed as to the finalized dates when residences are available for testing, to allow the agency to arrange oversight and the retrieval of duplicate samples.

The CCC/USDA intends to offer radon sampling to the residents of homes potentially affected by carbon tetrachloride, to be conducted at the same time. The radon kits used, as approved for sampling in Hanover, Kansas (KDHE 2010), will be obtained from the county office. The kits (charcoal canisters or pouches) will be used as directed and will be left in place for 3-4 days, then returned (after exposure) to National Radon Program Services at Kansas State University (133 Ward Hall, Manhattan, KS 66506-2508). The results will be reported to the KDHE when available.

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TABLE 1 Contact information for Everest residences to be sampled.

No.	Name	Street Address	City, State, Zip	Telephone
1	Nigh, Donald	1191 Prairie Road	Everest, KS 66424-9095	785-548-7582
2	Winters, John J.	1120 Main Street	Everest, KS 66424-9134	None
3	Smith, Jimmy P.	1044 Main Street	Everest, KS 66424-9098	785-548-7780
4	Chriss, Gary R.	605 Hickory Circle	Everest, KS 66424-9099	785-548-7659
5	Lane, Harold	620 Hickory Circle	Everest, KS 66424-9099	785-548-7573
6	Scott, Corey P.	636 Hickory Circle	Everest, KS 66424-9099	785-548-7614
7	Knudson, Roger L.	900 Main Street	Everest, KS 66424-9100	785-548-7559
8	Moulder, Oaks	828 Main Street	Everest, KS 66424-9101	785-548-7797
9	Opal, III, Eugene L.	837 Main Street	Everest, KS 66424-9101	None
10	Ambler, Charlotte	829 Chestnut	Everest, KS 66424-9160	785-548-7544

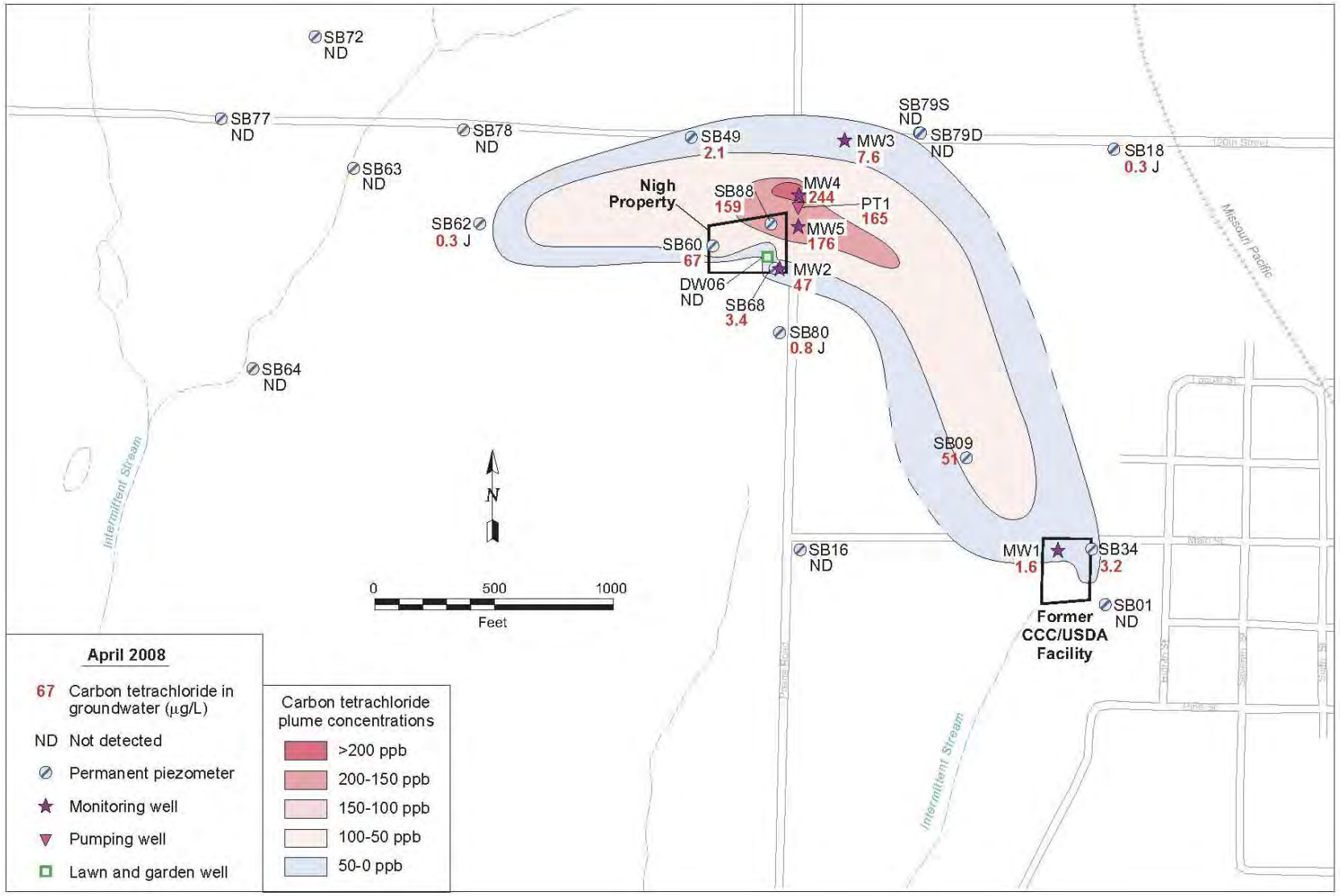

SB72
ND
SB77
ND
SB78
ND
SB63
ND
SB64
ND
SB62
0.3 J
SB49
2.1
MW3
7.6
SB79S
ND
SB79D
ND
SB18
0.3 J
120th Street
Missouri Pacific
Nigh
Property
SB88
159
MW4
244
PT1
165
MW5
176
SB60
67
MW2
47
DW06
ND
SB68
3.4
SB80
0.8 J
SB09
51
Intermittent Stream
N
0
500
1000
Feet
SB16
ND
MW1
1.6
SB34
3.2
SB01
ND
Former
CCC/USDA
Facility
Prairie Road
Intermittent Stream
April 2008
67 Carbon tetrachloride in groundwater (µg/L)
ND Not detected
Permanent piezometer
Monitoring well
Pumping well
Lawn and garden well
Carbon tetrachloride plume concentrations
>200 ppb
200-150 ppb
150-100 ppb
100-50 ppb
50-0 ppb

FIGURE 1


Everest, KS
2008 Aerial Photo
Prairie St.
Main St.
Chestnut
8th St.
Hickory
1191
1120
1044
605
636
620
900
829
828
837
Former CCC/USDA Facility
0
500
1,000
feet
N

FIGURE 2

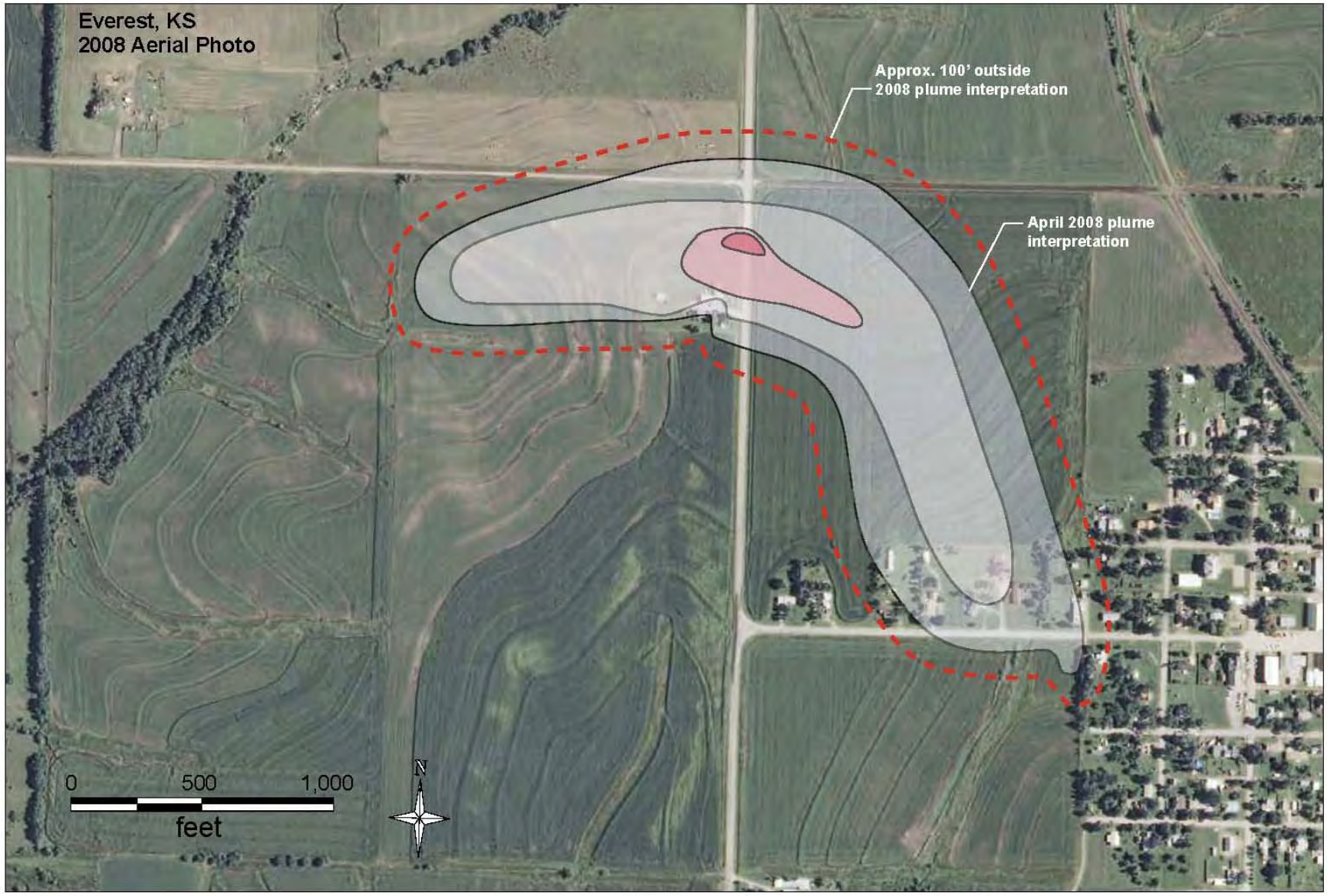

Everest, KS
2008 Aerial Photo
Approx. 100' outside
2008 plume interpretation
April 2008 plume
interpretation
0
500
1,000
feet
N

FIGURE 3

APPENDIX A

STANDARD OPERATING PROCEDURE BER-33

PROCEDURES FOR SAMPLING AND ANALYSIS OF INDOOR AIR SAMPLES

TABLE OF CONTENTS

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2. SAMPLING EQUIPMENT 4

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4. PRELIMINARY SCREENING 5

5. SAMPLING PROCEDURES 5

6. SAMPLING ANALYSIS 6

ATTACHMENT ONE - FIELD DATA AIR SAMPLING FORM

ATTACHMENT TWO - SAMPLING INSTRUCTIONS FOR CANISTERS WITH PNEUMATIC FLOW CONTROLLERS

1. INTRODUCTION

This procedure describes field protocols for sampling and analytical methods to determine the presence of VOCs in ambient, indoor, or workplace atmospheres. This method establishes standard operating procedures for the collection of air samples in passivated (inert) stainless-steel canisters.

2. SAMPLING EQUIPMENT

Indoor air samples will be collected in specially prepared six liter stainless-steel spheres. The laboratory will provide either SUMMA canisters or SilcoCans for the sampling. Air flow into the canister is regulated by a sampling valve (fixed orifice) or a pneumatic flow controller, attached to an in-line particulate filter. The sampling valve is typically used for short duration grab samples; however, the valve can be set for longer duration sampling. A flow controller can be preset to regulate flow for sample collection times of 1-hour, 3-hours, 8-hours, 12-hours or 24 hours. Larger canisters are available for sampling periods in excess of 24-hours. The desired sampling rate is pre-set either by the canister manufacturer or the laboratory. Canisters will be cleaned and certified by the laboratory as per EPA Method TO-14A or TO-15 guidelines.

A pressure/vacuum gauge is utilized to measure and record the initial canister pressure. This item is not typically supplied by the laboratory but is available upon request. The canister pressure should be approximately 22 - 25 psig. If the initial pressure is less than 20 psig, the canister should be rejected and returned to the laboratory.

Stainless-steel or Teflon tubing can be attached to the inline filter to obtain samples from the breathing zone or a remote location. If only adults occupy the residence, the inlet manifold is placed in the breathing zone at approximately five feet above grade. The manifold may not be required for representative air sample in a residence with children. The laboratory will supply this material upon request.

3. BACKGROUND REVIEW

An adequate background review must be conducted to obtain information on each structure from which a sample is collected. Conduct a survey of each structure to ascertain basement, crawl space or slab on-grade building configuration. Determine if sumps, wells, or cisterns are associated with each structure. Evaluate the condition of the floors and walls, furnace use (fuel type) and building ventilation. These features may act as conduits that will facilitate the migration of VOCs from the soil and/or groundwater plume. An attached garage may store products that can contribute to contaminant impacts.

Interviews should be conducted to assess the use of potential contaminants, frequency of use, storage, as well as methods of handling and disposal. Additional information that is vital to adequately evaluate potential health risks include the following: the length of occupant residency; the ages of the adults and children that live in the structure; if the occupants smoke and how often. Any hobbies that use paints or solvents should be noted. The data referenced in this section should be entered on the Field Data Air Sampling Form in Attachment One.

4. PRELIMINARY SCREENING

Primary sampling areas will be in basements and/or the lowest potential living level, near sumps or other potential source areas. Preliminary screening of the sampling area may be conducted through use of photoionization detectors (PID) or colorimetric tubes. Screening, and subsequent sampling, will be conducted in the center of the room away from obstructions in the breathing zone, near potential sources, basements and crawl spaces. PIDs will be checked and calibrated according to manufacturers directions. Additional preliminary factors to be documented will include indoor and outdoor temperature, wind speed/ direction, and barometric pressure.

Preliminary screening and subsequent sampling can also be conducted in buildings or residences outside the area of concern to evaluate background levels of various constituents that may impact data interpretation. The data referenced in this section should be entered on the Field Data Air Sampling Form in Attachment One.

5. SAMPLING PROCEDURES

Laboratory prepared sampling apparatus configurations may vary. Specific instructions and/or diagrams for system assembly, if any, should be obtained from the laboratory suppling the canister(s). Canisters should not be placed in areas of high humidity (bathroom/laundry room), near windows, or heat registers. Record the local outdoor temperature, relative humidity and barometric pressure on the Field Data Air Sampling Form in Attachment One.

Sampling equipment apparatus may be assembled as follows: connect the flow controller, with attached in-line filter and vacuum/ pressure gauge, to the canister utilizing a compression fitting; connect a sampling tube to the sample inlet on the filter; place the canister in the predetermined location and begin sampling by turning the canister valve counter-clockwise one full turn or as specified; after sampling is complete, record the canister pressure and close the canister valve. Do not over-tighten the valves or compression fittings.

The final canister pressure should be less than atmospheric to ensure that a constant flow rate was used for the entire sampling period. Attach an identification tag that indicates the canister serial

number, sample number, location, and date to the canister for transport to the laboratory. The canisters will be shipped under proper chain-of-custody protocol. Canisters must be returned to the laboratory from which they were rented for analysis. A copy of sampling instructions for canisters with pneumatic flow controllers is in Attachment Two.

6. SAMPLE ANALYSIS

The canisters provide storage stability for many VOCs for a period of up to 30 days. Collected samples will be submitted for laboratory analysis by either EPA Method TO-14A (EPA, January, 1997) or EPA Method TO-15 (EPA, January, 1997). EPA Method TO-14A is the more recognized method for analysis of unknown trace VOCs and is more sensitive. This method can analyze up to 41 of 187 hazardous air pollutants listed in the Title III Clean Air Act Amendment (CAAA). EPA Method TO-14A uses single or multiple detectors which are generally less desirable than the mass spectrometry detector utilized by EPA Method TO-15.

The mass spectrometry utilized for EPA Method TO-15 is a more scientifically defensible detector scheme that has a more definitive identification technique for VOC analysis than TO-14A. Therefore, EPA Method TO-15 can be applied with a higher confidence which reduces uncertainty in risk assessments that evaluate VOCs. A larger number of Title III CAAA compounds can be analyzed (97 of 187) by EPA Method TO-15. Detection limits for the various analytes, with either EPA method, range from 0.2 ppbv - 25 ppbv.

A relatively limited number of laboratories conduct air sampling analysis. The referenced lab methods can be located on the world wide web at the following addresses: www.epa.gov/ttnamtil/files/ambient/airtox/to-14a.pdf or www.epa.gov/ttnamtil/files/ambient/airtox/to-15.pdf.

References:

Method TO-14A - Determination of Volatile Organic Compounds (VOCs) in Ambient Air Using Specially Prepared Canisters with Subsequent Analysis by Gas Chromatography, EPA, January, 1997

Method TO-15 - Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry, EPA, January, 1997

ATTACHMENT ONE

FIELD DATA AIR SAMPLING FORM

FIELD DATA AIR SAMPLING FORM

Site Name:_____

Sample Identification:_____/_____ Date Sampled:_____

Sample Location(s):_____
_____

Sampler:_____ Canister Serial #:_____/_____

Environmental Conditions

Outdoor Temperature:_____ Barometric Pressure:_____ Wind Speed/Direction:_____

Relative Humidity:_____ Comments:_____

Preliminary Screening

Instrumentation:_____ Calibration Date:_____ Time:_____ am/pm

Field Reading(s):_____(ppm)/_____(ppm)/_____(ppm)/_____(ppm)

Location(s):_____
_____
_____
_____

Air Sampling

	Time	Pressure	Controller Flow
Start:	_____am/pm	_____psig	_____
Stop:	_____am/pm	_____psig	_____

Start:	_____am/pm	_____psig	_____
Stop:	_____am/pm	_____psig	_____

FIELD DATA AIR SAMPLING FORM

Residential Questionnaire

Tenant's Name(s):_____ Age:_____ Tenure:_____
_____ _____ _____
_____ _____ _____
_____ _____ _____
_____ _____ _____

Address:_____

Smoker(s): Y/N Product (Cigars, Pipe, Cigarettes):_____ Number Smoked/Day:_____

Basement/Crawl Space: Y/N Ventilated: Y/N Living Quarters: Y/N
Basement Activities:_____

Private Well: Y/N Sump: Y/N Cistern: Y/N In Use/Plugged: Y/N

Recent Remodeling: Y/N Activities (painting, new carpet, new cabinets): Y/N
_____

VOC sources (hobbies, paints, solvents, gasoline, etc.):_____
_____

Cleaning Products and Storage:_____

Attached Garage: Y/N Garage Storage (cars, lawn mover, etc.):_____

Furnace Type (Oil, Natural Gas, Propane):_____ Furnace Intake: Inside/Outside

Additional Heating Sources (space heater, etc):_____ Fuel Type:_____

Comments:_____
_____
_____
_____
_____

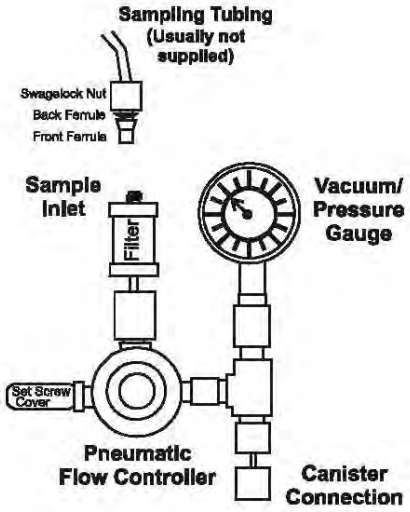
ATTACHMENT TWO

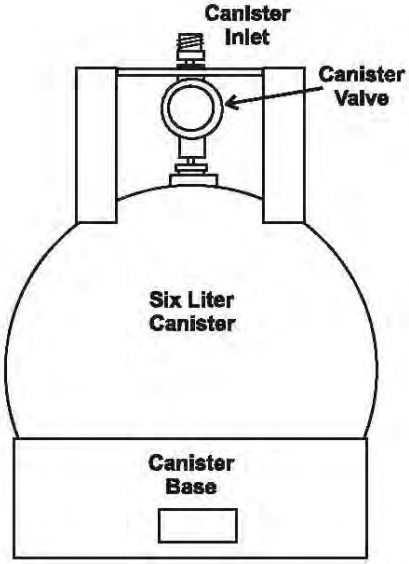
SAMPLING INSTRUCTIONS FOR CANISTERS WITH PNEUMATIC FLOW CONTROLLERS

Sampling Instructions for Canisters With Pneumatic Flow Controllers

1. Inspect your canister shipment upon arrival. Compare the contents with the packing slip and notify the lab of any discrepancy or damage.
2. Familiarize yourself with this diagram and the equipment that you received. The flow controller will be set for the appropriate sampling rate in the laboratory and should not require adjustment.
3. Remove the brass caps from the flow controller and canister. Connect the flow controller to the canister by inserting the "canister connection" into the "canister inlet" and hand tighten the swagelock nut being careful not to cross the threads. Using two open end wrenches (1/2" & 9/16") tighten the nut no more than 1/8 turn past finger tight. DO NOT use adjustable wrenches or pliers.
4. The fittings are swagelock compression fittings. Do not use teflon tape or other sealants, they are not necessary. DO NOT over-tighten any connection. Over-tightening causes leaks, not fixes them.
5. The canister and controller are now ready for ambient air sampling. If you intend to sample a remote location or source, you will need to attach a sampling line. This should be 1/4" O.D. tubing of virgin Teflon or cleaned stainless steel.
6. If arranged with your canister order, the lab will provide a swagelock nut and set of nylon ferrules for connecting line. Slide the nut, the back ferrule, then the front ferrule onto the tubing. Insert the tubing into the sample inlet and slide the ferrules into the fitting. Secure the nut being careful not to cross the threads. When using nylon ferrules, a snug finger tight should be sufficient for a leak free connection.
7. To begin sampling, simply open the canister valve by turning clockwise. One full turn is sufficient. Note the vacuum gauge reading. The vacuum gauge reading should be near the barometric pressure.
8. You can watch the decline in the vacuum to gauge the sampling rate. A one hour sample should drop in vacuum at a rate of 0.5" Hg per minute (i.e. 30"/60 min). Remember this is a rough estimate. The sampling rate is normally set in the laboratory. Occasionally the controller will lose calibration in shipment. If necessary contact the lab for assistance.
9. After sampling is complete, close the canister valve by turning clockwise until finger tight. DO NOT over-tighten as this WILL damage a very expensive valve.
10. Disassemble the components in reverse order of the above assembly instructions. Return all components to the original shipping containers and package them as received.
11. Verify that all parts are packed for return by referencing the packing slip. The project will be charged for all missing or damaged components.
12. Complete a Chain-of-Custody Record and return the sample to the laboratory for analyses.

Teflon will sometimes have very low level freon contamination.





Appendix C:

Quality Control Data Summary

TABLE C.1 Analytical results from the AGEM Laboratory for quality control samples collected during groundwater monitoring in April 2010.

Location	Sample	Sample Date	Depth (ft BGL)	Concentration (µg/L)			Sample Type
				Carbon Tetrachloride	Chloroform	Methylene Chloride	
MW2	EVMW2-W-29744	4/8/10	59-79	124	3.3	ND[a]	Primary sample
MW2	EVMW2-W-29744DUP	4/8/10	59-79	129	3.1	ND	Duplicate analysis
MW4	EVMW4-W-29746	4/9/10	48.5-68.5	245	8.4	ND	Primary sample
MW4	EVMW4-W-29746DUP	4/9/10	48.5-68.5	253	8.8	ND	Duplicate analysis
SB09	EVSB09-W-29747	4/9/10	51-57	72	4.9	ND	Primary sample
SB09	EVSB09-W-29747DUP	4/9/10	51-57	75	5.3	ND	Duplicate analysis
SB09	EVSB09DUP-W-29760	4/9/10	51-57	63	4.5	ND	Replicate
SB72	EVSB72-W-29754	4/8/10	32-42	ND	ND	ND	Primary sample
SB72	EVSB72DUP-W-29759	4/8/10	32-42	ND	ND	ND	Replicate
QC	EVQCIR-W-29761	4/8/10	–	ND	ND	ND	Equipment rinsate
QC	EVQCIR-W-29762	4/9/10	–	ND	ND	ND	Equipment rinsate
QC	EVQCTB-W-29763	4/8/10	–	ND	ND	ND	Trip blank
QC	EVQCTB-W-29764	4/9/10	–	ND	ND	ND	Trip blank

[a] ND, not detected at the purge-and-trap method detection limit of 0.1 µg/L.

TABLE C.2 Analytical results for verification groundwater samples collected in April 2010.

				Concentration (µg/L)					
				AGEM Laboratory			TestAmerica, Inc.		
Location	Sample	Sample Date	Depth (ft BGL)	Carbon Tetrachloride	Chloroform	Methylene Chloride	Carbon Tetrachloride	Chloroform	Methylene Chloride
MW2	EVMW2-W-29744	4/8/10	59-79	124	3.3	ND[a]	110	3.7	ND
MW3	EVMW3-W-29745	4/8/10	56.5-71.5	13	0.5 J	ND	11	0.5	ND
SB78	EVSB78-W-29756	4/8/10	30-40	ND	ND	ND	ND	ND	ND
SB88	EVSB88-W-29758	4/8/10	62-72	212	7.6	ND	170	8.5	ND

[a] ND, not detected at an instrument detection limit of 0.1 µg/L.

Appendix D:

2007 Recommendations for New Monitoring Wells and KDHE Comments

Recommendations for New Monitoring Wells at Everest, Kansas

On February 15, 2007, the Commodity Credit Corporation of the U.S. Department of Agriculture (CCC/USDA) submitted *Recommendations for Remedial Action at Everest, Kansas.*[1] Those *Recommendations* were accepted by the Kansas Department of Health and Environment (KDHE) in a letter to the CCC/USDA dated March 5, 2007.[2] The approved *Recommendations* document outlines a plan for systematic groundwater sampling and monitoring at Everest to provide data necessary for the critical evaluation of remedial options — including a phytoremediation alternative — for restoration of the groundwater and protection of the surface waters of the intermittent creek at this site. Phase I of the KDHE-approved monitoring plan includes the following activities:

- Groundwater sampling at existing monitoring wells, with analyses for volatile organic compounds (VOCs) and selected biodegradation parameters.
- Sampling of surface waters along the intermittent creek for VOCs analyses.
- Periodic manual measurement and automated recording of groundwater and surface water levels in the vicinity of the intermittent creek.

The locations selected for groundwater and surface water sampling and analyses under the approved monitoring program[1] were determined in consultation with the KDHE.

As a result of subsequent discussions among representatives of the KDHE, the CCC/USDA, and Argonne regarding the technical program at Everest, the CCC/USDA seeks KDHE approval for the installation of up to four new permanent monitoring wells along the upper reach of the intermittent creek west of the Nigh property, as shown in Figure 1.

The proposed new well locations lie progressively downgradient in the anticipated direction of future groundwater and contaminant movement; *all of the recommended points lie at least 2,000 ft upgradient, however, of the confirmed area of groundwater discharge to the creek identified near Highway 73* (Figure 2).

The proposed new wells will supplement the existing network of groundwater and surface water monitoring points identified in the KDHE-approved monitoring plan. The new wells will be sampled in accord with the schedules outlined in the approved plan.[1]

---

[1] Argonne National Laboratory, 2007, *Recommendations for Remedial Action at Everest, Kansas*, ANL/EVS/AGEM/CHRON-1025, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, February 15.

[2] Carey, C., 2007, letter from Carey (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas), to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), March 5.

The new wells are recommended to address specific investigation needs, as follows:

- The proposed borings will provide data on the lithologic and hydrogeologic characteristics — and the relative continuity — of the Everest aquifer unit along the upgradient reach of the intermittent creek, where possible implementation of a phytoremediation remedy is under consideration.

- Installation of the borings will permit the collection of sediments from the aquifer unit for possible physical or hydraulic property analyses. The completed monitoring wells will also facilitate possible future *in situ* estimation of the aquifer unit's hydraulic properties in this area, as part of the remedy evaluation and development process.

- The completed new wells will be used to determine the depths to groundwater and the pattern(s) of groundwater flow near the intermittent creek, and hence to predict more accurately the locations of possible groundwater (and contaminant) discharge and the extent of the area amenable to possible phytoremediation.

- The use of automated groundwater level recorders at the new locations will provide data on the potential range and variability of groundwater levels to be expected in the area near the intermittent creek.

- Periodic sampling of the recommended wells for VOCs analyses will help to constrain (1) the rate(s) and pathway(s) of contaminant approach toward the intermittent creek (and the area amenable to possible phytoremediation) and (2) the areal extent of the plume as it continues to evolve. The resulting "early warning" data obtained from this sampling will therefore help to ensure that remedial action can be taken, if necessary, in sufficient time to prevent unacceptable levels of carbon tetrachloride contamination from threatening the identified surface waters of the creek.

The well locations shown in Figure 1 were chosen to satisfy the technical objectives above, as well as to minimize disruption (to the extent possible) of the normal agricultural activities in the required investigation area. To accommodate these somewhat conflicting goals, the recommended monitoring points include one new well (PZ1) along the existing waterways west of the Nigh property, one new well (PZ3) along the margin of the farm field southwest of existing well SB63 and northeast of well SB64, and two new wells (PZ2, PZ4) in the fields east of the intermittent creek. The CCC/USDA has contacted the potentially affected landowner and is attempting to negotiate access to the desired well locations. If the necessary access cannot be obtained, a modified distribution of three new monitoring wells, to be located entirely along the existing waterways west and southwest of the Nigh property (Figure 3), is proposed as a possible alternate configuration.

The Argonne 22-ton, track-mounted crawler cone penetrometer (CPT) vehicle will be used to advance the investigative borings and install the monitoring wells, in accord with

procedures outlined in the *Master Work Plan.*[3] At each location, CPT logs of tip pressure, sleeve friction, conductivity (if possible), borehole inclination, and tip:sleeve ratio will be obtained to aid in characterization of the aquifer unit's geology and hydrogeology. On the basis of these logs, one or more depth intervals (to be determined as needed) in each boring may be selectively cored to confirm the lithologies present, as well as to obtain sediment samples for possible analyses for physical or hydraulic properties.

The monitoring wells will be installed with the CPT as 1-in.-diameter piezometers, in accord with KDHE requirements. The specific depth interval to be screened in each well will be selected, with CCC/USDA and KDHE approval, on the basis of the electronic log and sediment core data obtained at each location. Previous Argonne findings for this site suggest possible well depths ranging from 30 ft to 40 ft below ground level (BGL) for the topographically more upslope locations PZ1, PZ2, and PZ4 (Figure 1) and 20 ft to 30 ft BGL for well PZ3, nearer the creek (Figure 1). Each well will be constructed by using either a flush-mount or stick-up surface completion at the request of the property owner. The wells will be developed in accord with KDHE requirements. Groundwater will be sampled from each well upon completion of the well installation and development.

[3] Argonne National Laboratory, 2002, *Final Master Work Plan: Environmental Investigations at Former CCC/USDA Facilities in Kansas, 2002 Revision*, ANL/ER/TR-02/004, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, December.

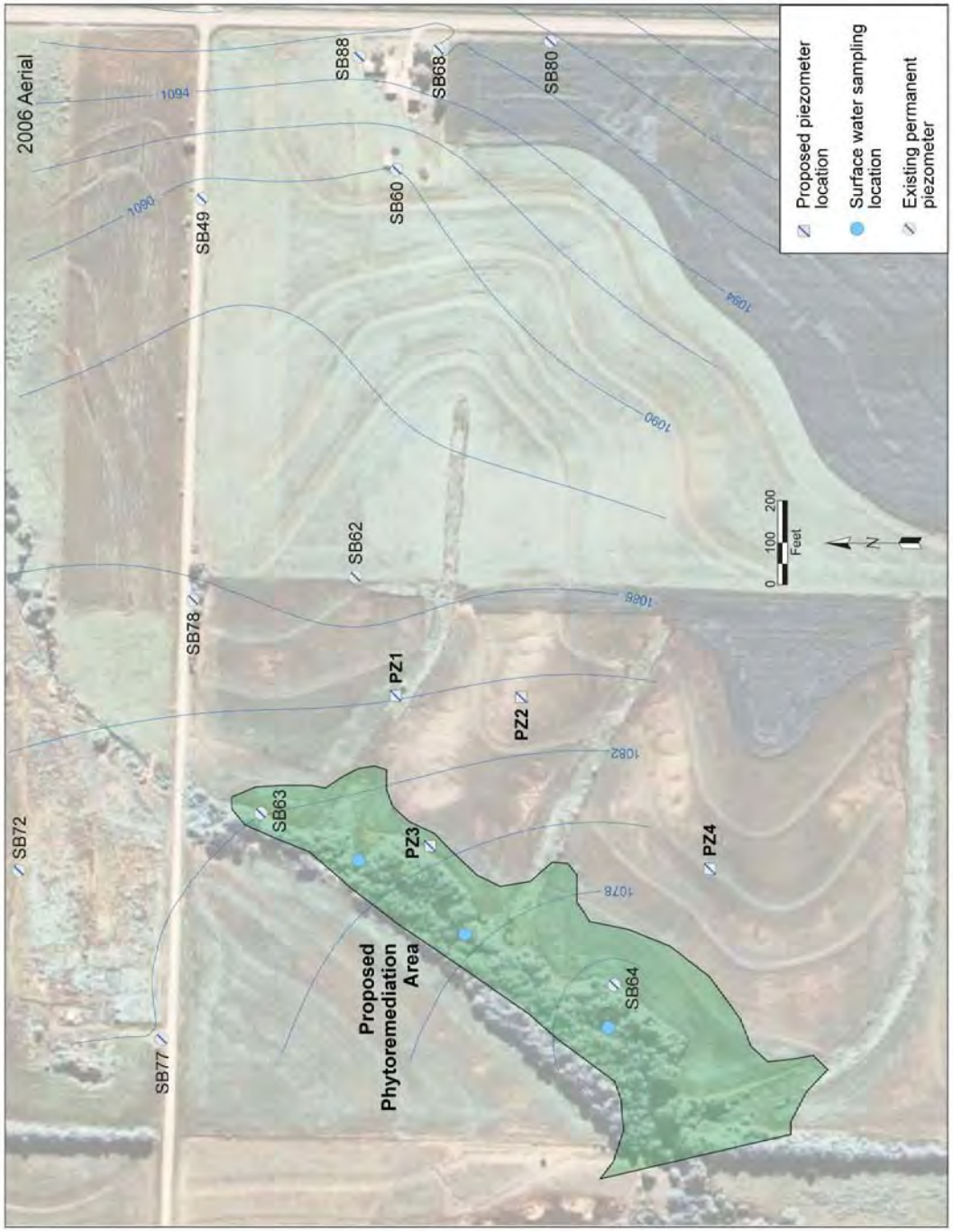


FIGURE 1 Locations of existing permanent monitoring wells, KDHE-approved locations for periodic sampling of surface waters (if present), and proposed locations for four additional permanent monitoring points (piezometers) near the intermittent creek at Everest. Proposed new locations in the fields east of the creek are provisional and subject to CCC/USDA negotiation of property access. The shading indicates the presently estimated upstream (upgradient) margin of the area along the intermittent creek that may be amenable to phytoremediation (with depths to groundwater of 15 ft BGL or less).

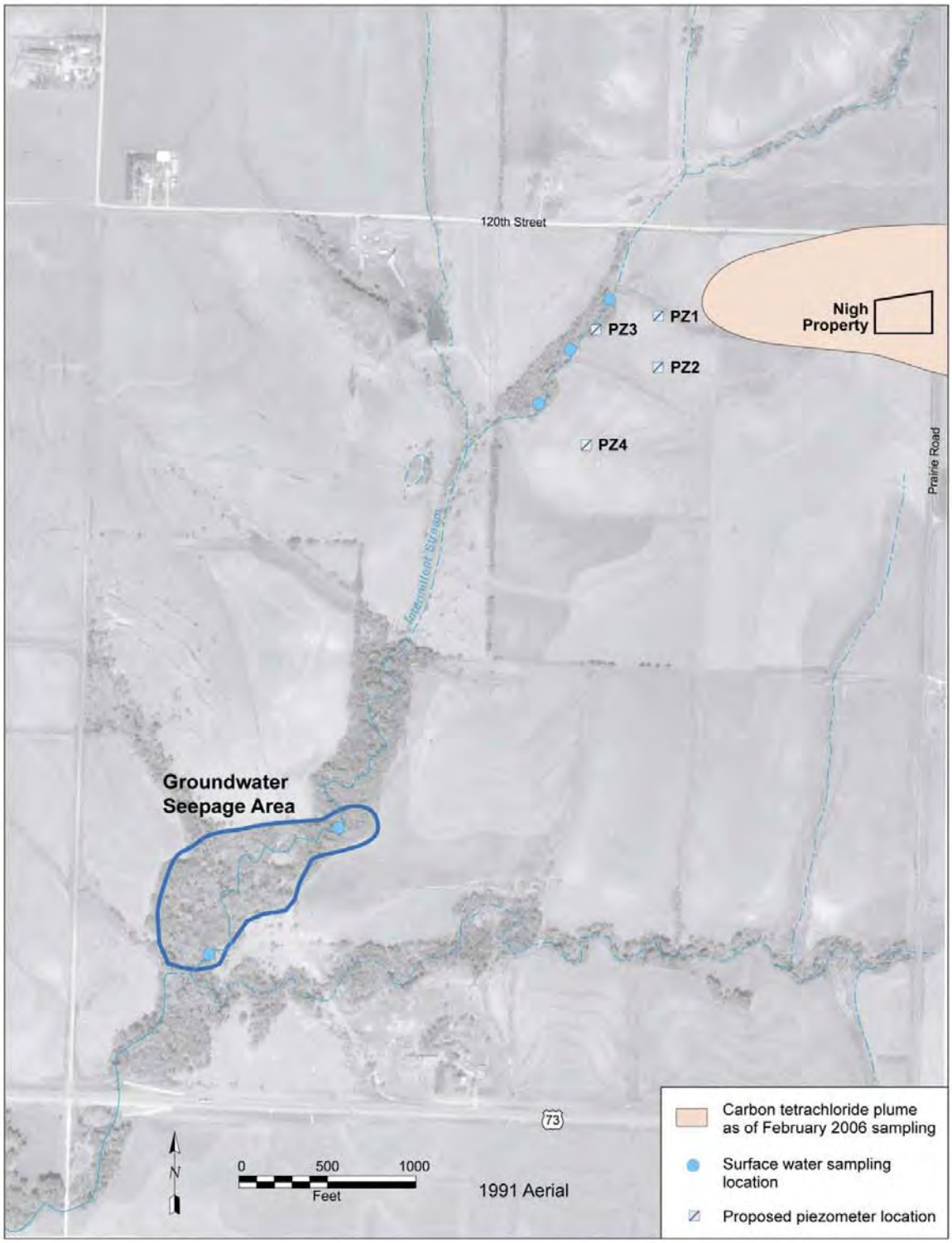


FIGURE 2 Proposed locations for new permanent monitoring points (piezometers) near the intermittent creek at Everest. The proposed locations are, at minimum, 2,000 ft upstream/upgradient from the identified area of groundwater discharge to the creek near Highway 73.

Recommendations for New Monitoring Wells at Everest, Kansas
May 3, 2007
6

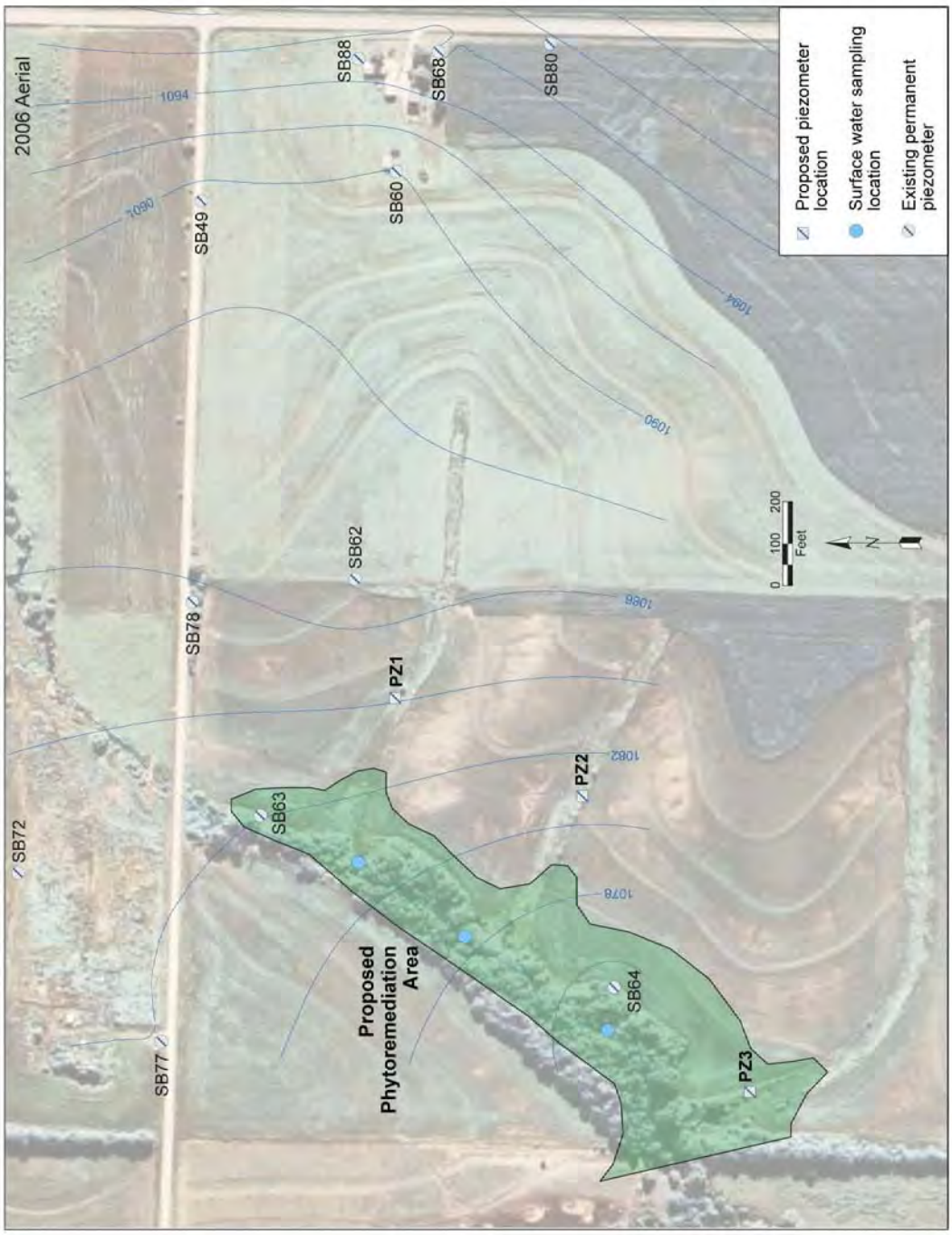


FIGURE 3 Locations of existing permanent monitoring wells, KDHE-approved locations for periodic sampling of surface waters (if present), and proposed alternate locations for three new permanent monitoring points (piezometers) along the existing waterways near the intermittent creek at Everest, if property access to the locations shown in Figure 1 cannot be obtained by the CCC/USDA. The shading indicates the presently estimated upstream (upgradient) margin of the area along the intermittent creek that may be amenable to phytoremediation (with depths to groundwater of 15 ft BGL or less).

KANSAS

Kathleen Sebelius, Governor
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH
AND ENVIRONMENT

www.kdheks.gov

Division of Environment

May 16, 2007

Ms. Caroline Roe
CCC/USDA Farm Credit Service
1400 Independence Ave, SW, Room 4723
Stop 0513
Washington, DC 20250-0513

Re: ***Recommendations for New Monitoring Wells at Everest, Kansas***

Dear Ms. Roe:

The Kansas Department of Health and Environment (KDHE) acknowledges receipt of the above-referenced document prepared by Argonne National Laboratory on behalf of the Commodity Credit Corporation of the United States Department of Agriculture (CCC/USDA) and dated May 3, 2007. KDHE recognizes CCC/USDA's desire to move forward with monitoring well installation during the week of May 21, 2007; as such, KDHE approves the document with consideration of the following modifications to the alternate well locations shown on Figure 3:

- KDHE requests that CCC/USDA install one monitoring well along the north-south fence line approximately 300' south of SB62 to track downgradient and crossgradient migration of the carbon tetrachloride plume.

- The installation of a monitoring well at the location identified as PZ3 on Figures 1 and 2 is critical to satisfy the goals of the proposal. Even if the landowner rejects CCC/USDA's proposal to install monitoring wells within the field (i.e., PZ2 and PZ4), it may be possible to install a well in the field boundaries adjacent to the intermittent creek (i.e., SB63 and SB64).

At this time, KDHE believes that the proposed monitoring well locations will be sufficient to monitor plume expansion toward the intermittent creek; however, based upon the results of future groundwater sampling and the remedial strategy selected for the site, additional monitoring wells may be necessary. Should you have any questions, or if the requested modifications are unacceptable to CCC/USDA or the landowner, please contact me prior to field mobilization by phone at 785-296-0225 or email at ccarey@kdhe.state.ks.us.

Sincerely,

Christopher C. Carey
Environmental Scientist/Project Manager
Post-Remediation Unit
Bureau of Environmental Remediation

cc: Dr. Lorraine M. LaFreniere, Argonne National Laboratory
Ms. E. Jean Underwood, KDHE → C4-007-70591 (1.0)

CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE. 410, TOPEKA, KS 66612-1367
Voice 785-296-1673 Fax 785-296-7030

Supplement 1:

Wastewater Analysis Data from Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

October 14, 2010

Mr. Travis Kamler
TCW Construction Inc
141 M Street
Lincoln, NE 68508

RE: Project: Kansas Waste Water
Pace Project No.: 6086606

Dear Mr. Kamler:
Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trudy Gipson

trudy.gipson@pacelabs.com
Project Manager

Enclosures

cc: Mr. David Surgnier

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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Kansas Waste Water
Pace Project No.: 6086606

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: Kansas Waste Water
Pace Project No.: 6086606

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6086606001	**BAPURGE-W-930101**	Water	09/30/10 09:00	10/01/10 09:15
6086606002	**CNPURGE-W-930102**	Water	09/30/10 10:00	10/01/10 09:15
6086606003	**EVPURGE-W-930103**	Water	09/30/10 11:32	10/01/10 09:15
6086606004	**MRPURGE-W-930104**	Water	09/30/10 13:42	10/01/10 09:15

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SAMPLE ANALYTE COUNT

Project: Kansas Waste Water
Pace Project No.: 6086606

Lab ID	Sample ID	Method	Analysts	Analytes Reported
6086606001	**BAPURGE-W-930101**	EPA 504.1	NAW	1
		EPA 5030B/8260	HMW	70
		EPA 300.0	RAB	1
6086606002	**CNPURGE-W-930102**	EPA 504.1	NAW	1
		EPA 5030B/8260	HMW	70
		EPA 300.0	RAB	1
6086606003	**EVPURGE-W-930103**	EPA 504.1	NAW	1
		EPA 5030B/8260	HMW	70
		EPA 300.0	RAB	1
6086606004	**MRPURGE-W-930104**	EPA 504.1	NAW	1
		EPA 5030B/8260	HMW	70
		EPA 300.0	RAB	1

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ANALYTICAL RESULTS

Project: Kansas Waste Water
Pace Project No.: 6086606

Sample: BAPURGE-W-930101 **Lab ID: 6086606001** Collected: 09/30/10 09:00 Received: 10/01/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromoethane (EDB)	ND	ug/L	0.029	1	10/07/10 00:00	10/07/10 21:23	106-93-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**293**	ug/L	10.0	1		10/03/10 12:46	67-64-1	
Benzene	ND	ug/L	1.0	1		10/03/10 12:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/03/10 12:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/03/10 12:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/03/10 12:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/03/10 12:46	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/03/10 12:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/10 12:46	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/03/10 12:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/03/10 12:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/03/10 12:46	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		10/03/10 12:46	75-15-0	L3
Carbon tetrachloride	ND	ug/L	1.0	1		10/03/10 12:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/03/10 12:46	108-90-7	L3
Chloroethane	ND	ug/L	1.0	1		10/03/10 12:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/03/10 12:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/03/10 12:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/03/10 12:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/03/10 12:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		10/03/10 12:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/03/10 12:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/03/10 12:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/03/10 12:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 12:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 12:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 12:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/03/10 12:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/03/10 12:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/03/10 12:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		10/03/10 12:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/03/10 12:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/10 12:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/10 12:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/03/10 12:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/03/10 12:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/03/10 12:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/03/10 12:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/10 12:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/10 12:46	10061-02-6	L3
Ethylbenzene	ND	ug/L	1.0	1		10/03/10 12:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/03/10 12:46	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		10/03/10 12:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/10 12:46	98-82-8	L3
p-Isopropyltoluene	ND	ug/L	1.0	1		10/03/10 12:46	99-87-6	

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ANALYTICAL RESULTS

Project: Kansas Waste Water
Pace Project No.: 6086606

Sample: BAPURGE-W-930101 **Lab ID: 6086606001** Collected: 09/30/10 09:00 Received: 10/01/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Methylene chloride	ND	ug/L	1.0	1		10/03/10 12:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/10 12:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/03/10 12:46	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		10/03/10 12:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/03/10 12:46	103-65-1	
Styrene	ND	ug/L	1.0	1		10/03/10 12:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/10 12:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/10 12:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/03/10 12:46	127-18-4	
Toluene	ND	ug/L	1.0	1		10/03/10 12:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/03/10 12:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/03/10 12:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/03/10 12:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/03/10 12:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/03/10 12:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/03/10 12:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		10/03/10 12:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/03/10 12:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/03/10 12:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/03/10 12:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/03/10 12:46	1330-20-7	
4-Bromofluorobenzene (S)	93	%	87-113	1		10/03/10 12:46	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	1		10/03/10 12:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		10/03/10 12:46	17060-07-0	
Toluene-d8 (S)	102	%	90-110	1		10/03/10 12:46	2037-26-5	
Preservation pH	**7.0**		0.10	1		10/03/10 12:46		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**2.7**	mg/L	0.10	1		10/01/10 18:59	14797-55-8	

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ANALYTICAL RESULTS

Project: Kansas Waste Water
Pace Project No.: 6086606

Sample: CNPURGE-W-930102 **Lab ID: 6086606002** Collected: 09/30/10 10:00 Received: 10/01/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromoethane (EDB)	ND	ug/L	0.029	1	10/07/10 00:00	10/07/10 21:34	106-93-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**474**	ug/L	10.0	1		10/03/10 13:01	67-64-1	
Benzene	ND	ug/L	1.0	1		10/03/10 13:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/03/10 13:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/03/10 13:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/03/10 13:01	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/03/10 13:01	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/03/10 13:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/10 13:01	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/03/10 13:01	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/03/10 13:01	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/03/10 13:01	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		10/03/10 13:01	75-15-0	L3
Carbon tetrachloride	ND	ug/L	1.0	1		10/03/10 13:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/03/10 13:01	108-90-7	L3
Chloroethane	ND	ug/L	1.0	1		10/03/10 13:01	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/03/10 13:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/03/10 13:01	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/03/10 13:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/03/10 13:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		10/03/10 13:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/03/10 13:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/03/10 13:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/03/10 13:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/03/10 13:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/03/10 13:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/03/10 13:01	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		10/03/10 13:01	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/03/10 13:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/10 13:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/10 13:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/03/10 13:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/03/10 13:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/03/10 13:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/03/10 13:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/10 13:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/10 13:01	10061-02-6	L3
Ethylbenzene	ND	ug/L	1.0	1		10/03/10 13:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/03/10 13:01	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		10/03/10 13:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/10 13:01	98-82-8	L3
p-Isopropyltoluene	ND	ug/L	1.0	1		10/03/10 13:01	99-87-6	

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ANALYTICAL RESULTS

Project: Kansas Waste Water
Pace Project No.: 6086606

Sample: CNPURGE-W-930102 **Lab ID: 6086606002** Collected: 09/30/10 10:00 Received: 10/01/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Methylene chloride	ND	ug/L	1.0	1		10/03/10 13:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/10 13:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/03/10 13:01	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		10/03/10 13:01	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/03/10 13:01	103-65-1	
Styrene	ND	ug/L	1.0	1		10/03/10 13:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/10 13:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/10 13:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/03/10 13:01	127-18-4	
Toluene	ND	ug/L	1.0	1		10/03/10 13:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/03/10 13:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/03/10 13:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/03/10 13:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/03/10 13:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		10/03/10 13:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/03/10 13:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/03/10 13:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/03/10 13:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/03/10 13:01	1330-20-7	
4-Bromofluorobenzene (S)	96	%	87-113	1		10/03/10 13:01	460-00-4	
Dibromofluoromethane (S)	105	%	86-112	1		10/03/10 13:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	82-119	1		10/03/10 13:01	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		10/03/10 13:01	2037-26-5	
Preservation pH	**7.0**		0.10	1		10/03/10 13:01		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**1.7**	mg/L	0.10	1		10/01/10 19:15	14797-55-8	

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ANALYTICAL RESULTS

Project: Kansas Waste Water
Pace Project No.: 6086606

Sample: EVPURGE-W-930103 **Lab ID: 6086606003** Collected: 09/30/10 11:32 Received: 10/01/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromoethane (EDB)	ND	ug/L	0.029	1	10/07/10 00:00	10/07/10 21:44	106-93-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**787**	ug/L	10.0	1		10/03/10 13:16	67-64-1	E,P2
Benzene	ND	ug/L	1.0	1		10/03/10 13:16	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/03/10 13:16	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/03/10 13:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/03/10 13:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/03/10 13:16	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/03/10 13:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/10 13:16	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/03/10 13:16	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/03/10 13:16	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/03/10 13:16	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		10/03/10 13:16	75-15-0	L3
Carbon tetrachloride	ND	ug/L	1.0	1		10/03/10 13:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/03/10 13:16	108-90-7	L3
Chloroethane	ND	ug/L	1.0	1		10/03/10 13:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/03/10 13:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/03/10 13:16	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/03/10 13:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/03/10 13:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		10/03/10 13:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/03/10 13:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/03/10 13:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/03/10 13:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/03/10 13:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/03/10 13:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/03/10 13:16	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		10/03/10 13:16	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/03/10 13:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/10 13:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/10 13:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/03/10 13:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/03/10 13:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/03/10 13:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/03/10 13:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/10 13:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/10 13:16	10061-02-6	L3
Ethylbenzene	ND	ug/L	1.0	1		10/03/10 13:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/03/10 13:16	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		10/03/10 13:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/10 13:16	98-82-8	L3
p-Isopropyltoluene	ND	ug/L	1.0	1		10/03/10 13:16	99-87-6	

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ANALYTICAL RESULTS

Project: Kansas Waste Water
Pace Project No.: 6086606

Sample: EVPURGE-W-930103 **Lab ID: 6086606003** Collected: 09/30/10 11:32 Received: 10/01/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Methylene chloride	ND	ug/L	1.0	1		10/03/10 13:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/10 13:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/03/10 13:16	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		10/03/10 13:16	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/03/10 13:16	103-65-1	
Styrene	ND	ug/L	1.0	1		10/03/10 13:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/10 13:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/10 13:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/03/10 13:16	127-18-4	
Toluene	ND	ug/L	1.0	1		10/03/10 13:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/03/10 13:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/03/10 13:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/03/10 13:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/03/10 13:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		10/03/10 13:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/03/10 13:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/03/10 13:16	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/03/10 13:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/03/10 13:16	1330-20-7	
4-Bromofluorobenzene (S)	96	%	87-113	1		10/03/10 13:16	460-00-4	
Dibromofluoromethane (S)	98	%	86-112	1		10/03/10 13:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	92	%	82-119	1		10/03/10 13:16	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		10/03/10 13:16	2037-26-5	
Preservation pH	**7.0**		0.10	1		10/03/10 13:16		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**2.0**	mg/L	0.10	1		10/01/10 19:32	14797-55-8	

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ANALYTICAL RESULTS

Project: Kansas Waste Water
Pace Project No.: 6086606

Sample: MRPURGE-W-930104 **Lab ID: 6086606004** Collected: 09/30/10 13:42 Received: 10/01/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromoethane (EDB)	ND	ug/L	0.029	1	10/07/10 00:00	10/07/10 21:55	106-93-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**351**	ug/L	10.0	1		10/03/10 13:31	67-64-1	
Benzene	ND	ug/L	1.0	1		10/03/10 13:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/03/10 13:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/03/10 13:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/03/10 13:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/03/10 13:31	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/03/10 13:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/10 13:31	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/03/10 13:31	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/03/10 13:31	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/03/10 13:31	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		10/03/10 13:31	75-15-0	L3
Carbon tetrachloride	ND	ug/L	1.0	1		10/03/10 13:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/03/10 13:31	108-90-7	L3
Chloroethane	ND	ug/L	1.0	1		10/03/10 13:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/03/10 13:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/03/10 13:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/03/10 13:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/03/10 13:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		10/03/10 13:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/03/10 13:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/03/10 13:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/03/10 13:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/03/10 13:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/03/10 13:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/03/10 13:31	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		10/03/10 13:31	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/03/10 13:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/10 13:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/10 13:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/03/10 13:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/03/10 13:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/03/10 13:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/03/10 13:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/10 13:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/10 13:31	10061-02-6	L3
Ethylbenzene	ND	ug/L	1.0	1		10/03/10 13:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/03/10 13:31	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		10/03/10 13:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/10 13:31	98-82-8	L3
p-Isopropyltoluene	ND	ug/L	1.0	1		10/03/10 13:31	99-87-6	

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ANALYTICAL RESULTS

Project: Kansas Waste Water
Pace Project No.: 6086606

Sample: MRPURGE-W-930104 **Lab ID: 6086606004** Collected: 09/30/10 13:42 Received: 10/01/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Methylene chloride	ND	ug/L	1.0	1		10/03/10 13:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/10 13:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/03/10 13:31	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		10/03/10 13:31	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/03/10 13:31	103-65-1	
Styrene	ND	ug/L	1.0	1		10/03/10 13:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/10 13:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/10 13:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/03/10 13:31	127-18-4	
Toluene	ND	ug/L	1.0	1		10/03/10 13:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/03/10 13:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/03/10 13:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/03/10 13:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/03/10 13:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/03/10 13:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		10/03/10 13:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/03/10 13:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/03/10 13:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/03/10 13:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/03/10 13:31	1330-20-7	
4-Bromofluorobenzene (S)	95	%	87-113	1		10/03/10 13:31	460-00-4	
Dibromofluoromethane (S)	105	%	86-112	1		10/03/10 13:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		10/03/10 13:31	17060-07-0	
Toluene-d8 (S)	103	%	90-110	1		10/03/10 13:31	2037-26-5	
Preservation pH	**7.0**		0.10	1		10/03/10 13:31		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**0.99**	mg/L	0.10	1		10/01/10 19:48	14797-55-8	

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QUALITY CONTROL DATA

Project: Kansas Waste Water
Pace Project No.: 6086606

QC Batch: OEXT/25923 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP
Associated Lab Samples: 6086606001, 6086606002, 6086606003, 6086606004

METHOD BLANK: 713551 Matrix: Water
Associated Lab Samples: 6086606001, 6086606002, 6086606003, 6086606004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.030	10/07/10 20:50	

LABORATORY CONTROL SAMPLE & LCSD: 713552 713553

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.29	0.28	114	112	70-130	2	20	

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QUALITY CONTROL DATA

Project: Kansas Waste Water
Pace Project No.: 6086606

QC Batch: MSV/32160 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 7 day
Associated Lab Samples: 6086606001, 6086606002, 6086606003, 6086606004

METHOD BLANK: 711291 Matrix: Water
Associated Lab Samples: 6086606001, 6086606002, 6086606003, 6086606004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/03/10 11:44	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/03/10 11:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/03/10 11:44	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/03/10 11:44	
1,1-Dichloroethane	ug/L	ND	1.0	10/03/10 11:44	
1,1-Dichloroethene	ug/L	ND	1.0	10/03/10 11:44	
1,1-Dichloropropene	ug/L	ND	1.0	10/03/10 11:44	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/03/10 11:44	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/03/10 11:44	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/03/10 11:44	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/03/10 11:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/03/10 11:44	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/03/10 11:44	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/03/10 11:44	
1,2-Dichloroethane	ug/L	ND	1.0	10/03/10 11:44	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	10/03/10 11:44	
1,2-Dichloropropane	ug/L	ND	1.0	10/03/10 11:44	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/03/10 11:44	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/03/10 11:44	
1,3-Dichloropropane	ug/L	ND	1.0	10/03/10 11:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/03/10 11:44	
2,2-Dichloropropane	ug/L	ND	1.0	10/03/10 11:44	
2-Butanone (MEK)	ug/L	ND	10.0	10/03/10 11:44	
2-Chlorotoluene	ug/L	ND	1.0	10/03/10 11:44	
2-Hexanone	ug/L	ND	10.0	10/03/10 11:44	
4-Chlorotoluene	ug/L	ND	1.0	10/03/10 11:44	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/03/10 11:44	
Acetone	ug/L	ND	10.0	10/03/10 11:44	
Benzene	ug/L	ND	1.0	10/03/10 11:44	
Bromobenzene	ug/L	ND	1.0	10/03/10 11:44	
Bromochloromethane	ug/L	ND	1.0	10/03/10 11:44	
Bromodichloromethane	ug/L	ND	1.0	10/03/10 11:44	
Bromoform	ug/L	ND	1.0	10/03/10 11:44	
Bromomethane	ug/L	ND	1.0	10/03/10 11:44	
Carbon disulfide	ug/L	ND	5.0	10/03/10 11:44	
Carbon tetrachloride	ug/L	ND	1.0	10/03/10 11:44	
Chlorobenzene	ug/L	ND	1.0	10/03/10 11:44	
Chloroethane	ug/L	ND	1.0	10/03/10 11:44	
Chloroform	ug/L	ND	1.0	10/03/10 11:44	
Chloromethane	ug/L	ND	1.0	10/03/10 11:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/03/10 11:44	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/03/10 11:44	
Dibromochloromethane	ug/L	ND	1.0	10/03/10 11:44	

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QUALITY CONTROL DATA

Project: Kansas Waste Water
Pace Project No.: 6086606

METHOD BLANK: 711291 Matrix: Water

Associated Lab Samples: 6086606001, 6086606002, 6086606003, 6086606004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	10/03/10 11:44	
Dichlorodifluoromethane	ug/L	ND	1.0	10/03/10 11:44	
Ethylbenzene	ug/L	ND	1.0	10/03/10 11:44	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/03/10 11:44	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/03/10 11:44	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/03/10 11:44	
Methylene chloride	ug/L	ND	1.0	10/03/10 11:44	
n-Butylbenzene	ug/L	ND	1.0	10/03/10 11:44	
n-Propylbenzene	ug/L	ND	1.0	10/03/10 11:44	
Naphthalene	ug/L	ND	10.0	10/03/10 11:44	
p-Isopropyltoluene	ug/L	ND	1.0	10/03/10 11:44	
sec-Butylbenzene	ug/L	ND	1.0	10/03/10 11:44	
Styrene	ug/L	ND	1.0	10/03/10 11:44	
tert-Butylbenzene	ug/L	ND	1.0	10/03/10 11:44	
Tetrachloroethene	ug/L	ND	1.0	10/03/10 11:44	
Toluene	ug/L	ND	1.0	10/03/10 11:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/03/10 11:44	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/03/10 11:44	
Trichloroethene	ug/L	ND	1.0	10/03/10 11:44	
Trichlorofluoromethane	ug/L	ND	1.0	10/03/10 11:44	
Vinyl chloride	ug/L	ND	1.0	10/03/10 11:44	
Xylene (Total)	ug/L	ND	3.0	10/03/10 11:44	
1,2-Dichloroethane-d4 (S)	%	93	82-119	10/03/10 11:44	
4-Bromofluorobenzene (S)	%	101	87-113	10/03/10 11:44	
Dibromofluoromethane (S)	%	102	86-112	10/03/10 11:44	
Toluene-d8 (S)	%	102	90-110	10/03/10 11:44	

LABORATORY CONTROL SAMPLE: 711292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.0	110	79-116	
1,1,1-Trichloroethane	ug/L	20	21.2	106	77-113	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	68-122	
1,1,2-Trichloroethane	ug/L	20	20.9	104	82-117	
1,1-Dichloroethane	ug/L	20	20.7	103	67-122	
1,1-Dichloroethene	ug/L	20	23.7	118	70-119	
1,1-Dichloropropene	ug/L	20	21.1	106	81-115	
1,2,3-Trichlorobenzene	ug/L	20	19.9	99	66-135	
1,2,3-Trichloropropane	ug/L	20	18.4	92	76-126	
1,2,4-Trichlorobenzene	ug/L	20	19.7	99	66-126	
1,2,4-Trimethylbenzene	ug/L	20	19.8	99	78-115	
1,2-Dibromo-3-chloropropane	ug/L	20	24.1	121	58-147	
1,2-Dibromoethane (EDB)	ug/L	20	21.2	106	84-121	
1,2-Dichlorobenzene	ug/L	20	20.9	105	79-116	
1,2-Dichloroethane	ug/L	20	19.2	96	74-119	

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Kansas Waste Water
Pace Project No.: 6086606

LABORATORY CONTROL SAMPLE: 711292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	44.0	110	78-117	
1,2-Dichloropropane	ug/L	20	19.6	98	77-115	
1,3,5-Trimethylbenzene	ug/L	20	19.5	98	83-117	
1,3-Dichlorobenzene	ug/L	20	21.7	108	79-112	
1,3-Dichloropropane	ug/L	20	20.7	103	82-119	
1,4-Dichlorobenzene	ug/L	20	21.8	109	78-111	
2,2-Dichloropropane	ug/L	20	22.1	110	57-130	
2-Butanone (MEK)	ug/L	100	89.9	90	41-157	
2-Chlorotoluene	ug/L	20	20.1	100	82-118	
2-Hexanone	ug/L	100	96.1	96	57-137	
4-Chlorotoluene	ug/L	20	22.5	112	83-114	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.9	93	62-118	
Acetone	ug/L	100	93.6	94	38-174	
Benzene	ug/L	20	19.5	97	79-116	
Bromobenzene	ug/L	20	18.9	95	81-115	
Bromochloromethane	ug/L	20	20.3	102	72-123	
Bromodichloromethane	ug/L	20	21.9	110	76-113	
Bromoform	ug/L	20	22.9	115	62-129	
Bromomethane	ug/L	20	23.6	118	24-168	
Carbon disulfide	ug/L	20	28.3	142	45-129	L3
Carbon tetrachloride	ug/L	20	19.7	99	67-124	
Chlorobenzene	ug/L	20	23.0	115	79-113	L3
Chloroethane	ug/L	20	21.4	107	57-153	
Chloroform	ug/L	20	21.3	107	74-116	
Chloromethane	ug/L	20	17.7	88	51-138	
cis-1,2-Dichloroethene	ug/L	20	21.0	105	77-120	
cis-1,3-Dichloropropene	ug/L	20	22.9	114	76-116	
Dibromochloromethane	ug/L	20	23.0	115	73-115	
Dibromomethane	ug/L	20	19.1	95	75-115	
Dichlorodifluoromethane	ug/L	20	13.9	69	6-181	
Ethylbenzene	ug/L	20	19.8	99	76-122	
Hexachloro-1,3-butadiene	ug/L	20	20.4	102	68-129	
Isopropylbenzene (Cumene)	ug/L	20	21.4	107	71-104	L3
Methyl-tert-butyl ether	ug/L	20	21.4	107	62-131	
Methylene chloride	ug/L	20	22.8	114	61-137	
n-Butylbenzene	ug/L	20	20.7	104	75-124	
n-Propylbenzene	ug/L	20	20.0	100	79-116	
Naphthalene	ug/L	20	18.3	91	60-145	
p-Isopropyltoluene	ug/L	20	19.4	97	79-114	
sec-Butylbenzene	ug/L	20	20.4	102	83-119	
Styrene	ug/L	20	21.0	105	70-125	
tert-Butylbenzene	ug/L	20	22.2	111	81-118	
Tetrachloroethene	ug/L	20	23.1	116	77-117	
Toluene	ug/L	20	20.3	101	75-120	
trans-1,2-Dichloroethene	ug/L	20	23.0	115	76-119	
trans-1,3-Dichloropropene	ug/L	20	21.3	106	64-105	L3
Trichloroethene	ug/L	20	19.4	97	78-118	
Trichlorofluoromethane	ug/L	20	20.9	105	73-118	

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Kansas Waste Water
Pace Project No.: 6086606

LABORATORY CONTROL SAMPLE: 711292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	22.6	113	60-122	
Xylene (Total)	ug/L	60	61.1	102	74-124	
1,2-Dichloroethane-d4 (S)	%			89	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			105	86-112	
Toluene-d8 (S)	%			101	90-110	

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Kansas Waste Water
Pace Project No.: 6086606

QC Batch: WETA/14191 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 6086606001, 6086606002, 6086606003, 6086606004

METHOD BLANK: 710224 Matrix: Water
Associated Lab Samples: 6086606001, 6086606002, 6086606003, 6086606004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	ND	0.10	10/01/10 18:26	

LABORATORY CONTROL SAMPLE: 710225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	5	4.9	99	90-110	

MATRIX SPIKE SAMPLE: 710226

Parameter	Units	6086606004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	0.99	5	5.5	91	68-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 710227 710228

Parameter	Units	6086604004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.18	5	5	5.1	5.2	99	100	68-120	1	16	

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Kansas Waste Water
Pace Project No.: 6086606

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: MSV/32160

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.

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Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: TCW Project # Geo 866606

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 8717 9523 1713 Pace Shipping Label Used? ☐ Yes ☐ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other _____

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.2

Temperature should be above freezing to 6°C

Optional	
Proj. Due Date:	10/13
Proj. Name:	

Date and Initials of person examining contents: 10/11/10 LG

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. NO3
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9.
-Pace containers used:	☐Yes ☑No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed ✓ Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: JDL Date: 10-1-10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1272142

Section A Required Client Information:

Company: TCW Construction
Address: 141 M Street
Lincoln NE 68508
Email To: tkamler@tcwconstruction
Phone: 402 416 7255 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: tkamler@tcwconstruction.com
Copy To: Sargnier@prodigy.net
Purchase Order No.:
Project Name: Kansas Waste Water
Project Number:

Section C Invoice Information:

Attention: Travis Kamler
Company Name: TCW
Address:
Pace Quote Reference:
Pace Project Manager: Trudy Gipson
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: KS

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC	EDB	NITRATES	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	BAPURGE-W-930101	WW	C	3/10		9/30/2010	0900	59	5	3					2			2	2	1		BP2U 2(0694U) 2(0691U)
2	CNPURGE-W-930102	WW	C	4/10		9-30	1000	60	5	3					2			2	2	1		
3	EVPURGE-W-930103	WW	C	4/10		9-30	1132	65	5	3					2			2	2	1		
4	MRPURGE-W-930104	WW	C	4/10		9-30	1342		5	3					2			2	2	1		
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Residual Chlorine (Y/N): Cool & Cool

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
All samples Collected from 55 gal Drum Stored at Each Site	TCW	9-30-10	1830		10/1/10	0915	2.2	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Travis Kamler
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 09/30/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

INVOICE

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: (913)599-5665

Invoice Number: 106081867
Date: 10/14/2010
Total Amount Due: $592.00

Sold To:

Mr. Travis Kamler
TCW Construction Inc
141 M Street
Lincoln, NE 68508
402-475-5030

Please Remit To:

Pace Analytical Services, Inc.
P.O. Box 684056
Milwaukee, WI 53268-4056

Client Number/Client ID	*Purchase Order No*	*Pace Project Mgr*	*Terms*	*Page*
60-508440 / TCW Const	Credit Card	Trudy Gipson	Net 30 Days**	1

Client Project: Kansas Waste Water
Client Name: TCW Construction Inc
Pace Project No: 6086606
Sample Received: 10/1/2010
Report Sent To: Mr. David Surgnier,
Mr. Travis Kamler, TCW Construction Inc
Comments:

ANALYTICAL CHARGES

Quantity	Unit	Description	Method	Matrix	Price	Total
4	Ea	300.0 IC Anions-Nitrate	EPA 300.0	Water	$18.00	$72.00
4	Ea	504 GCS EDB DBCP	EPA 504.1	Water	$60.00	$240.00
4	Ea	8260 VOC by GC/MS-Full Scan	EPA 5030B/8260	Water	$70.00	$280.00
					Analytical Subtotal	$592.00

Total Number of Charges 12 **Total Invoice Amount** **$592.00**

Samples Received for analysis:

Lab ID	Client Sample ID	Received
6086606001	BAPURGE-W-930101	10/1/2010 9:15:00
6086606002	CNPURGE-W-930102	10/1/2010 9:15:00
6086606003	EVPURGE-W-930103	10/1/2010 9:15:00
6086606004	MRPURGE-W-930104	10/1/2010 9:15:00

If you have any questions or to pay by credit card, please contact Trudy Gipson at Pace.
Phone: 1(913)563-1405 Email: trudy.gipson@pacelabs.com

****1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS OR TERMS OF CONTRACT.**
PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTANCE ADVICE.

AN EQUAL OPPORTUNITY EMPLOYER

Please complete and return copy of invoice with your payment.

INVOICE TOTAL $592.00

Amount Paid: $ _____

Check No: _____

Customer No: 60-508440 Invoice No: 106081867

AGEM 40 L

CITY OF SABETHA Cash - Matt
805 MAIN
PO BOX 187
SABETHA KS 66534 785-284-2158

Receipt No: 2.001326 Dec 17, 2010

TCW Construction

WASTEWATER FUND-MISC MISCELLANEOUS INCOME-purged water	50.00
Total:	50.00
Cash	50.00
Total Applied:	50.00
Change Tendered:	.00

12/17/10 01:28PM

Supplement 2:

Groundwater Verification Data from TestAmerica Laboratories, Inc.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

May 4, 2010

Mr. Clyde Dennis
Argonne National Laboratory
9700 S. Cass Avenue
Building 203, Office B149
Argonne, IL 60439

Re: Laboratory Project No. 21005
Case: EVEREST; SDG: 136771

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by TestAmerica Burlington on April 9th, 2010. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 04/09/10 ETR No: 136771		
825835	EVMW2-W-29744	04/08/10	WATER
825836	EVMW3-W-29745	04/08/10	WATER
825837	EVSB78-W-29756	04/08/10	WATER
825838	EVSB88-W-29758	04/08/10	WATER
825839	EVQCTB-W-29763	04/08/10	WATER
825840	VHBLK01	04/10/10	WATER

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. The samples, as received, were not acid preserved. On that basis, the laboratory did provide for the analytical work to be performed within seven days of sample collection.

In order to accommodate field length limitations in processing the data summary forms, the laboratory did, in certain instances, abbreviate the sample identifier. The electronically formatted data provides for the full sample identifier.

SOM01.2 Volatile Organics (Trace Level Water)

A storage blank was prepared for volatile organics analysis, and stored in association with the storage of the samples. That storage blank, identified as VHBLK01, was carried through the

holding period with the samples, and analyzed.

Samples EVMW2-W-29744 and EVSB88-W-29758 were analyzed at a dilution in order to provide quantification within the range of calibrated instrument response. An additional, more concentrated analysis was performed on each of those samples in order to provide for a lower reporting limit for those compounds that were not identified in the primary analysis. Both sets of results for the analysis of samples EVMW2-W-29744 and EVSB88-W-29758 are included in this submittal.

Each of the analyses associated with the sample set exhibited an acceptable internal standard performance. There was an acceptable recovery of each deuterated monitoring compound (DMC) in the analysis of each method blank associated with the analytical work, and in the analysis of the storage blank associated with the sample set. The analysis of the samples in this sample set did meet the technical acceptance criteria specific to DMC recoveries, although not all DMC recoveries were within the control range in each analysis. The technical acceptance criteria does provide for the recovery of up to three DMCs to fall outside of the control range in the analysis of field samples. Matrix spike and matrix spike duplicate analyses were not performed on samples in this sample set. Trace concentrations of acetone and 2-butanone were identified in the analysis of the method blank associated with the analytical work. The concentration of each compound in that analysis was below the established reporting limit, and the analysis did meet the technical acceptance criteria for a compliant method blank analysis. The analysis of each instrument blank associated with the analytical work (one following each of the more concentrated analyses) was free of analyte contamination, as was the analysis of the storage blank associated with the sample set. Present in the method blank, instrument blank, and storage blank analyses was a non-target constituent that represented a compound that is related to the DMC formulation. The fact that the presence of this compound is not within the laboratory's control is at issue. The derived results for that compound have been qualified with an "X" qualifier to reflect the source of the contamination.

The responses for each of the target analytes met the relative standard deviation criterion in the initial calibration. The response for each target analyte met the percent difference criterion in the continuing calibration check acquisition. The response for each target analyte met the 50.0 percent difference criterion in the closing calibration check acquisition.

The primary quantitation mass for methylcyclohexane that is specified in the Statement of Work is mass 83. The laboratory did identify a contribution to mass 83 from 1,2-dichloropropane-d_6, one of the deuterated monitoring compounds (DMCs). The laboratory did change the primary quantitation mass assignment to mass 55 for the quantification of methylcyclohexane.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports. Extracted ion current profiles for each manual integration are included in the data package, and further documented in the Sample Preparation section of this submittal.

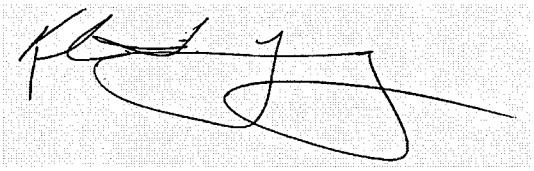
Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,



Kirk F. Young
Project Manager

KFY/hsf
Enclosure

TestAmerica Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: SW-846: The relative percent difference for detected concentrations between two GC columns is greater than 40%. Unless otherwise specified the higher of the two values is reported on the Form I.

CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

*: Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

2626

FedEx # 8558 7682 9646

MATRIX: Water
RECEIVING LAB: Test America
PROJECT/SITE: Everest KS
SAMPLER(S) (Signature)

ARGONNE NATIONAL LABORATORY
CHAIN OF CUSTODY RECORD*

Shipping Container No.
Shipping Info:
ANL Field Contact (Name & Temporary Phone): Dave Surgnier 630 408 7114

DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS VOC	REMARKS
April 8, 2010	EVMW2-W-29744	2	2	2 x 40 mL for VOC
	EVMW3-W-29745	2	2	
	EVSB78-W-29756	2	2	
	EVSB88-W-29758	2	2	
April 8, 2010	EVQCTB-W-29763	2	2	2 x 40 mL for VOC

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
	4-8-10	18:45					

Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time	Remarks
			Ura Kalb	4/9/10	1015	Temp 3.7

Y	N	FOR LAB USE ONLY
X		Custody seal was intact when shipment received.
X		Sample containers were intact when received.
X		Shipment was at required temperature when received.
X		Sample labels, Tags and COC agree.

*A sample is under custody if:
1. It is in your possession; or,
2. It is in your view, after having been in your possession; or,
3. It was in your possession and you locked it up; or,
4. It is in a designated secure area.

Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439

ER-160 (12-94)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Data Summary – SOM01.2 Volatiles – Trace

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW2W29744

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825835

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825835D2

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.2

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.60	U
74-87-3	Chloromethane	0.60	U
75-01-4	Vinyl chloride	0.60	U
74-83-9	Bromomethane	0.60	U
75-00-3	Chloroethane	0.60	U
75-69-4	Trichlorofluoromethane	0.60	U
75-35-4	1,1-Dichloroethene	0.60	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	U
67-64-1	Acetone	1.3	JB
75-15-0	Carbon disulfide	0.60	U
79-20-9	Methyl acetate	0.60	U
75-09-2	Methylene chloride	0.60	U
156-60-5	trans-1,2-Dichloroethene	0.60	U
1634-04-4	Methyl tert-butyl ether	0.60	U
75-34-3	1,1-Dichloroethane	0.60	U
156-59-2	cis-1,2-Dichloroethene	0.60	U
78-93-3	2-Butanone	6.0	U
74-97-5	Bromochloromethane	0.60	U
67-66-3	Chloroform	2.8	
71-55-6	1,1,1-Trichloroethane	0.60	U
110-82-7	Cyclohexane	0.60	U
56-23-5	Carbon tetrachloride	100	E
71-43-2	Benzene	0.60	U
107-06-2	1,2-Dichloroethane	0.60	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW2W29744

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825835

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825835D2

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.2

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.60	U
108-87-2	Methylcyclohexane	0.60	U
78-87-5	1,2-Dichloropropane	0.60	U
75-27-4	Bromodichloromethane	0.60	U
10061-01-5	cis-1,3-Dichloropropene	0.60	U
108-10-1	4-Methyl-2-pentanone	6.0	U
108-88-3	Toluene	0.60	U
10061-02-6	trans-1,3-Dichloropropene	0.60	U
79-00-5	1,1,2-Trichloroethane	0.60	U
127-18-4	Tetrachloroethene	0.60	U
591-78-6	2-Hexanone	6.0	U
124-48-1	Dibromochloromethane	0.60	U
106-93-4	1,2-Dibromoethane	0.60	U
108-90-7	Chlorobenzene	0.60	U
100-41-4	Ethylbenzene	0.60	U
95-47-6	o-Xylene	0.60	U
179601-23-1	m,p-Xylene	0.60	U
100-42-5	Styrene	0.60	U
75-25-2	Bromoform	0.60	U
98-82-8	Isopropylbenzene	0.60	U
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U
541-73-1	1,3-Dichlorobenzene	0.60	U
106-46-7	1,4-Dichlorobenzene	0.60	U
95-50-1	1,2-Dichlorobenzene	0.60	U
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U
120-82-1	1,2,4-Trichlorobenzene	0.60	U
87-61-6	1,2,3-Trichlorobenzene	0.60	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW2W29744

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825835

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825835D2

Level: (TRACE or LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.2

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	3.5	JXB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1) EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW2W29744DL

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825835D1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825835D

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	4.1	U
74-87-3	Chloromethane	4.1	U
75-01-4	Vinyl chloride	4.1	U
74-83-9	Bromomethane	4.1	U
75-00-3	Chloroethane	4.1	U
75-69-4	Trichlorofluoromethane	4.1	U
75-35-4	1,1-Dichloroethene	4.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.1	U
67-64-1	Acetone	8.9	DJB
75-15-0	Carbon disulfide	4.1	U
79-20-9	Methyl acetate	4.1	U
75-09-2	Methylene chloride	4.1	U
156-60-5	trans-1,2-Dichloroethene	4.1	U
1634-04-4	Methyl tert-butyl ether	4.1	U
75-34-3	1,1-Dichloroethane	4.1	U
156-59-2	cis-1,2-Dichloroethene	4.1	U
78-93-3	2-Butanone	41	U
74-97-5	Bromochloromethane	4.1	U
67-66-3	Chloroform	3.7	DJ
71-55-6	1,1,1-Trichloroethane	4.1	U
110-82-7	Cyclohexane	4.1	U
56-23-5	Carbon tetrachloride	110	D
71-43-2	Benzene	4.1	U
107-06-2	1,2-Dichloroethane	4.1	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW2W29744DL

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825835D1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825835D

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	4.1	U
108-87-2	Methylcyclohexane	4.1	U
78-87-5	1,2-Dichloropropane	4.1	U
75-27-4	Bromodichloromethane	4.1	U
10061-01-5	cis-1,3-Dichloropropene	4.1	U
108-10-1	4-Methyl-2-pentanone	41	U
108-88-3	Toluene	4.1	U
10061-02-6	trans-1,3-Dichloropropene	4.1	U
79-00-5	1,1,2-Trichloroethane	4.1	U
127-18-4	Tetrachloroethene	4.1	U
591-78-6	2-Hexanone	41	U
124-48-1	Dibromochloromethane	4.1	U
106-93-4	1,2-Dibromoethane	4.1	U
108-90-7	Chlorobenzene	4.1	U
100-41-4	Ethylbenzene	4.1	U
95-47-6	o-Xylene	4.1	U
179601-23-1	m,p-Xylene	4.1	U
100-42-5	Styrene	4.1	U
75-25-2	Bromoform	4.1	U
98-82-8	Isopropylbenzene	4.1	U
79-34-5	1,1,2,2-Tetrachloroethane	4.1	U
541-73-1	1,3-Dichlorobenzene	4.1	U
106-46-7	1,4-Dichlorobenzene	4.1	U
95-50-1	1,2-Dichlorobenzene	4.1	U
96-12-8	1,2-Dibromo-3-chloropropane	4.1	U
120-82-1	1,2,4-Trichlorobenzene	4.1	U
87-61-6	1,2,3-Trichlorobenzene	4.1	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW2W29744DL

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825835D1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825835D

Level: (TRACE or LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	21	JXBD
02					
03					
04					
05					
06					
07					
08					
09					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1) EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW3W29745

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825836

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825836

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.52	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	11	
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW3W29745

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825836

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825836

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW3W29745

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825836

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825836

Level: (TRACE or LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	3.0	JXB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1)EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
QCTBW29763

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825839

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825839

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	6.9	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	0.80	JB
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.45	J
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
QCTBW29763

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825839

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825839

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	2.0	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.69	
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
QCTBW29763

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825839

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825839

Level: (TRACE or LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	2.8	JXB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A	2.1	J

(1)EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB78W29756

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825837

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825837

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB78W29756

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825837

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825837

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.65	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SB78W29756

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825837

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825837

Level: (TRACE or LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	2.9	JXB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1)EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB88W29758

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825838

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825838D2

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.2

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.60	U
74-87-3	Chloromethane	0.60	U
75-01-4	Vinyl chloride	0.60	U
74-83-9	Bromomethane	0.60	U
75-00-3	Chloroethane	0.60	U
75-69-4	Trichlorofluoromethane	0.60	U
75-35-4	1,1-Dichloroethene	0.60	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	U
67-64-1	Acetone	6.0	U
75-15-0	Carbon disulfide	0.60	U
79-20-9	Methyl acetate	0.60	U
75-09-2	Methylene chloride	0.60	U
156-60-5	trans-1,2-Dichloroethene	0.60	U
1634-04-4	Methyl tert-butyl ether	0.60	U
75-34-3	1,1-Dichloroethane	0.60	U
156-59-2	cis-1,2-Dichloroethene	0.60	U
78-93-3	2-Butanone	6.0	U
74-97-5	Bromochloromethane	0.60	U
67-66-3	Chloroform	6.6	
71-55-6	1,1,1-Trichloroethane	0.60	U
110-82-7	Cyclohexane	0.60	U
56-23-5	Carbon tetrachloride	170	E
71-43-2	Benzene	0.60	U
107-06-2	1,2-Dichloroethane	0.60	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB88W29758

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825838

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825838D2

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.2

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.60	U
108-87-2	Methylcyclohexane	0.60	U
78-87-5	1,2-Dichloropropane	0.60	U
75-27-4	Bromodichloromethane	0.60	U
10061-01-5	cis-1,3-Dichloropropene	0.60	U
108-10-1	4-Methyl-2-pentanone	6.0	U
108-88-3	Toluene	0.89	
10061-02-6	trans-1,3-Dichloropropene	0.60	U
79-00-5	1,1,2-Trichloroethane	0.60	U
127-18-4	Tetrachloroethene	0.60	U
591-78-6	2-Hexanone	6.0	U
124-48-1	Dibromochloromethane	0.60	U
106-93-4	1,2-Dibromoethane	0.60	U
108-90-7	Chlorobenzene	0.60	U
100-41-4	Ethylbenzene	0.60	U
95-47-6	o-Xylene	0.60	U
179601-23-1	m,p-Xylene	0.60	U
100-42-5	Styrene	0.60	U
75-25-2	Bromoform	0.60	U
98-82-8	Isopropylbenzene	0.60	U
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U
541-73-1	1,3-Dichlorobenzene	0.60	U
106-46-7	1,4-Dichlorobenzene	0.60	U
95-50-1	1,2-Dichlorobenzene	0.60	U
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U
120-82-1	1,2,4-Trichlorobenzene	0.60	U
87-61-6	1,2,3-Trichlorobenzene	0.60	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SB88W29758

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825838

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825838D2

Level: (TRACE or LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.2

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	3.5	JXB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1) EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB88W29758DL

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825838D1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825838D

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 13.3

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	6.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U
67-64-1	Acetone	67	U
75-15-0	Carbon disulfide	6.7	U
79-20-9	Methyl acetate	6.7	U
75-09-2	Methylene chloride	6.7	U
156-60-5	trans-1,2-Dichloroethene	6.7	U
1634-04-4	Methyl tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
78-93-3	2-Butanone	67	U
74-97-5	Bromochloromethane	6.7	U
67-66-3	Chloroform	8.5	D
71-55-6	1,1,1-Trichloroethane	6.7	U
110-82-7	Cyclohexane	6.7	U
56-23-5	Carbon tetrachloride	170	D
71-43-2	Benzene	6.7	U
107-06-2	1,2-Dichloroethane	6.7	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB88W29758DL

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825838D1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825838D

Level: (TRACE/LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 13.3

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	6.7	U
108-87-2	Methylcyclohexane	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-pentanone	67	U
108-88-3	Toluene	6.7	U
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
127-18-4	Tetrachloroethene	6.7	U
591-78-6	2-Hexanone	67	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	6.7	U
100-41-4	Ethylbenzene	6.7	U
95-47-6	o-Xylene	6.7	U
179601-23-1	m,p-Xylene	6.7	U
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropylbenzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SB88W29758DL

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825838D1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825838D

Level: (TRACE or LOW/MED) TRACE Date Received: 04/09/2010

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 13.3

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	39	JXBD
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1) EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKJP

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: VBLKJP

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: JAQB03H

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	2.0	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	1.1	J
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKJP

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: VBLKJP

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: JAQB03H

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKJP

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: VBLKJP

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: JAQB03H

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	2.8	JX
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1) EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VHBLK01

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825840

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825840

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VHBLK01

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825840

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825840

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: 825840

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 825840

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	3.0	JXB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1) EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLKJT

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: VIBLKJT

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: JAQB04H

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLKJT

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: VIBLKJT

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: JAQB04H

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLKJT

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: VIBLKJT

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: JAQB04H

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	2.7	JXB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1)EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLKJU

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: VIBLKJU

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: JAQB05H

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLKJU

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: VIBLKJU

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: JAQB05H

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLKJU

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: VIBLKJU

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: JAQB05H

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 04/12/2010

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	7.01	2.9	JXB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796(1)	Total Alkanes	N/A		

(1)EPA-designated Registry Number.

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLKJP	90	97	74	85	90	92	95
02	MW3W29745	88	98	76	112	94	98	99
03	SB78W29756	86	96	75	112	91	94	98
04	QCTBW29763	88	97	75	114	91	93	97
05	MW2W29744DL	80	89	70	105	85	89	88
06	SB88W29758DL	89	99	75	113	92	95	97
07	MW2W29744	87	95	73	109	91	91	97
08	VIBLKJT	82	92	70	79	83	87	90
09	SB88W29758	88	98	75	104	96	91	98
10	VIBLKJU	91	97	76	90	94	95	102
11	VHBLK01	92	103	78	87	97	98	100
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
VDMC1	(VCL) = Vinyl chloride-d3	(65-131)
VDMC2	(CLA) = Chloroethane-d5	(71-131)
VDMC3	(DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4	(BUT) = 2-Butanone-d5	(49-155)
VDMC5	(CLF) = Chloroform-d	(78-121)
VDMC6	(DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7	(BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA)#	VDMC9 (TOL)#	VDMC10 (TDP)#	VDMC11 (HEX)#	VDMC12 (TCA)#	VDMC13 (DCZ)#	VDMC14 ( )#	TOT OUT
01	VBLKJP	82	96	88	78	85	91		0
02	MW3W29745	86	101	97	107	93	96		0
03	SB78W29756	85	99	94	103	91	99		0
04	QCTBW29763	83	98	92	103	88	97		0
05	MW2W29744DL	78*	89	86	96	83	87		1
06	SB88W29758DL	86	99	96	103	89	96		0
07	MW2W29744	85	98	94	100	88	97		0
08	VIBLKJT	77*	91	87	73	82	90		1
09	SB88W29758	85	100	98	98	93	97		0
10	VIBLKJU	89	103	96	88	94	100		0
11	VHBLK01	88	103	96	87	90	101		0
12									
13									
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	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC13 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKJP

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Lab File ID: JAQB03H Lab Sample ID: VBLKJP

Instrument ID: J.i

Matrix: (SOIL/SED/WATER) Water Date Analyzed: 04/12/2010

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 0832

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW3W29745	825836	825836	1110
02	SB78W29756	825837	825837	1137
03	QCTBW29763	825839	825839	1204
04	MW2W29744DL	825835D1	825835D	1231
05	SB88W29758DL	825838D1	825838D	1257
06	MW2W29744	825835	825835D2	1324
07	VIBLKJT	VIBLKJT	JAQB04H	1351
08	SB88W29758	825838	825838D2	1418
09	VIBLKJU	VIBLKJU	JAQB05H	1444
10	VHBLK01	825840	825840	1511
11				
12				
13				
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COMMENTS: _____

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBJG

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Lab File ID: JAQ01PV BFB Injection Date: 04/05/2010

Instrument ID: J.i BFB Injection Time: 1223

GC Column: DB-624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 80.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.9
175	5.0 - 9.0% of mass 174	6.0 (8.9)1
176	95.0 - 101.0% of mass 174	66.3 (99.2)1
177	5.0 - 9.0% of mass 176	4.5 (6.8)2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.5JG	VSTD0.5JG	JAQ0005V	04/05/2010	1318
02	VSTD001JG	VSTD001JG	JAQ001V	04/05/2010	1345
03	VSTD005JG	VSTD005JG	JAQ005V	04/05/2010	1412
04	VSTD010JG	VSTD010JG	JAQ010V	04/05/2010	1438
05	VSTD020JG	VSTD020JG	JAQ020V	04/05/2010	1505
06					
07					
08					
09					
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22					

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBJP

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Lab File ID: JAQ17PV BFB Injection Date: 04/12/2010

Instrument ID: J.i BFB Injection Time: 0651

GC Column: DB-624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 80.0% of mass 95	45.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	1.1 (1.5)1
174	50.0 - 120.0% of mass 95	75.1
175	5.0 - 9.0% of mass 174	6.3 (8.4)1
176	95.0 - 101.0% of mass 174	73.9 (98.4)1
177	5.0 - 9.0% of mass 176	5.0 (6.7)2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005JP	VSTD005JP	JAQ005HV	04/12/2010	0805
02	VBLKJP	VBLKJP	JAQB03H	04/12/2010	0832
03	MW3W29745	825836	825836	04/12/2010	1110
04	SB78W29756	825837	825837	04/12/2010	1137
05	QCTBW29763	825839	825839	04/12/2010	1204
06	MW2W29744DL	825835D1	825835D	04/12/2010	1231
07	SB88W29758DL	825838D1	825838D	04/12/2010	1257
08	MW2W29744	825835	825835D2	04/12/2010	1324
09	VIBLKJT	VIBLKJT	JAQB04H	04/12/2010	1351
10	SB88W29758	825838	825838D2	04/12/2010	1418
11	VIBLKJU	VIBLKJU	JAQB05H	04/12/2010	1444
12	VHBLK01	825840	825840	04/12/2010	1511
13	VSTD005PJ	VSTD005PJ	JAQ05HC1	04/12/2010	1657
14					
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22					

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Instrument ID: J.i Calibration Date(s): 04/05/2010 04/05/2010

Heated Purge: (Y/N)N Calibration Time(s): 1318 1505

Purge Volume: 25.0 (mL)

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

LAB FILE ID: RRF0.5 = JAQ0005V RRF1.0 = JAQ001V
RRF5.0 = JAQ005V RRF10 = JAQ010V RRF20 = JAQ020V

COMPOUND	RRF0.5	RRF1.0	RRF5.0	RRF10	RRF20	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.457	0.437	0.408	0.407	0.415	0.425	5.1
Chloromethane	0.462	0.439	0.449	0.448	0.455	0.451	1.9
Vinyl chloride	0.488	0.458	0.442	0.443	0.442	0.454	4.4
Bromomethane	0.187	0.173	0.161	0.165	0.170	0.171	5.8
Chloroethane	0.273	0.279	0.254	0.254	0.254	0.263	4.6
Trichlorofluoromethane	0.524	0.522	0.507	0.501	0.502	0.511	2.2
1,1-Dichloroethene	0.320	0.313	0.300	0.296	0.301	0.306	3.3
1,1,2-Trichloro-1,2,2-trifluoroethane	0.348	0.330	0.315	0.310	0.314	0.323	4.8
Acetone	0.016	0.015	0.013	0.013	0.013	0.014	10.1
Carbon disulfide	1.128	0.982	0.959	0.931	0.933	0.986	8.3
Methyl acetate	0.067	0.054	0.048	0.047	0.047	0.053	16.1
Methylene chloride	0.262	0.252	0.250	0.242	0.246	0.250	3.0
trans-1,2-Dichloroethene	0.336	0.344	0.321	0.313	0.314	0.326	4.3
Methyl tert-butyl ether	0.403	0.409	0.394	0.383	0.395	0.397	2.5
1,1-Dichloroethane	0.606	0.610	0.595	0.588	0.584	0.597	1.9
cis-1,2-Dichloroethene	0.328	0.321	0.316	0.305	0.308	0.316	3.0
2-Butanone	0.029	0.028	0.027	0.027	0.028	0.028	3.2
Bromochloromethane	0.093	0.092	0.091	0.086	0.087	0.090	3.5
Chloroform	0.531	0.499	0.491	0.488	0.493	0.500	3.5
1,1,1-Trichloroethane	0.663	0.647	0.610	0.604	0.599	0.625	4.6
Cyclohexane	0.995	0.891	0.871	0.854	0.838	0.890	7.0
Carbon tetrachloride	0.554	0.529	0.509	0.510	0.507	0.522	3.8
Benzene	1.911	1.904	1.793	1.765	1.725	1.820	4.6
1,2-Dichloroethane	0.215	0.208	0.206	0.200	0.199	0.206	3.1
Trichloroethene	0.440	0.432	0.423	0.420	0.419	0.427	2.1
Methylcyclohexane	0.708	0.715	0.665	0.662	0.646	0.679	4.5

Report 1,4-Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Instrument ID: J.i Calibration Date(s): 04/05/2010 04/05/2010

Heated Purge: (Y/N)N Calibration Time(s): 1318 1505

Purge Volume: 25.0 (mL)

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

LAB FILE ID: RRF0.5 = JAQ0005V RRF1.0 = JAQ001V
RRF5.0 = JAQ005V RRF10 = JAQ010V RRF20 = JAQ020V

COMPOUND	RRF0.5	RRF1.0	RRF5.0	RRF10	RRF20	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.395	0.375	0.374	0.364	0.359	0.373	3.8
Bromodichloromethane	0.404	0.377	0.383	0.382	0.386	0.386	2.6
cis-1,3-Dichloropropene	0.507	0.506	0.496	0.496	0.495	0.500	1.2
4-Methyl-2-pentanone	0.096	0.098	0.097	0.095	0.097	0.096	1.0
Toluene	2.055	1.965	1.891	1.836	1.831	1.916	4.9
trans-1,3-Dichloropropene	0.343	0.336	0.348	0.343	0.345	0.343	1.3
1,1,2-Trichloroethane	0.145	0.173	0.157	0.153	0.153	0.156	6.6
Tetrachloroethene	0.361	0.353	0.329	0.327	0.329	0.340	4.6
2-Hexanone	0.059	0.062	0.061	0.061	0.062	0.061	2.0
Dibromochloromethane	0.180	0.177	0.185	0.180	0.186	0.182	2.1
1,2-Dibromoethane	0.139	0.136	0.137	0.136	0.136	0.137	1.1
Chlorobenzene	1.030	1.037	1.003	0.993	1.006	1.014	1.9
Ethylbenzene	2.210	2.158	2.092	2.087	2.091	2.128	2.6
o-Xylene	0.780	0.732	0.712	0.713	0.711	0.730	4.0
m,p-Xylene	0.804	0.815	0.785	0.777	0.783	0.793	2.0
Styrene	1.065	1.065	1.069	1.071	1.078	1.070	0.5
Bromoform	0.173	0.191	0.197	0.198	0.195	0.191	5.4
Isopropylbenzene	2.046	2.083	2.024	2.024	2.025	2.040	1.3
1,1,2,2-Tetrachloroethane	0.144	0.152	0.144	0.147	0.146	0.147	2.1
1,3-Dichlorobenzene	1.688	1.654	1.599	1.626	1.601	1.634	2.3
1,4-Dichlorobenzene	1.655	1.589	1.520	1.528	1.510	1.560	3.9
1,2-Dichlorobenzene	1.282	1.238	1.179	1.183	1.162	1.209	4.1
1,2-Dibromo-3-chloropropane	0.063	0.052	0.044	0.045	0.044	0.050	16.8
1,2,4-Trichlorobenzene	0.546	0.549	0.542	0.558	0.571	0.553	2.1
1,2,3-Trichlorobenzene	0.323	0.373	0.373	0.381	0.396	0.369	7.5

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Instrument ID: J.i Calibration Date(s): 04/05/2010 04/05/2010

Heated Purge: (Y/N)N Calibration Time(s): 1318 1505

Purge Volume: 25.0 (mL)

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

LAB FILE ID: RRF0.5 = JAQ0005V RRF1.0 = JAQ001V
RRF5.0 = JAQ005V RRF10 = JAQ010V RRF20 = JAQ020V

COMPOUND	RRF0.5	RRF1.0	RRF5.0	RRF10	RRF20	$\overline{RRF}$	%RSD
Vinyl chloride-d3	0.452	0.420	0.399	0.389	0.396	0.411	6.2
Chloroethane-d5	0.316	0.320	0.304	0.305	0.305	0.310	2.4
1,1-Dichloroethene-d2	0.724	0.703	0.670	0.657	0.660	0.683	4.3
2-Butanone-d5	0.026	0.027	0.027	0.027	0.028	0.027	2.3
Chloroform-d	0.571	0.539	0.540	0.525	0.528	0.541	3.3
1,2-Dichloroethane-d4	0.172	0.176	0.167	0.165	0.165	0.169	3.0
Benzene-d6	1.846	1.824	1.730	1.708	1.689	1.760	4.0
1,2-Dichloropropane-d6	0.539	0.500	0.497	0.481	0.478	0.499	4.9
Toluene-d8	1.627	1.628	1.563	1.556	1.543	1.583	2.6
trans-1,3-Dichloropropene-d4	0.319	0.311	0.304	0.309	0.315	0.312	1.9
2-Hexanone-d5	0.032	0.033	0.034	0.034	0.034	0.033	2.9
1,1,2,2-Tetrachloroethane-d2	0.158	0.156	0.148	0.146	0.149	0.151	3.2
1,2-Dichlorobenzene-d4	0.774	0.783	0.759	0.761	0.744	0.764	1.9

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Instrument ID: J.i Calibration Date: 04/12/2010 Time: 0805

Lab File ID: JAQ005HV Init. Calib. Date(s): 04/05/2010 04/05/2010

EPA Sample No.(VSTD#####): VSTD005JP Init. Calib. Time(s): 1318 1505

Heated Purge: (Y/N)N GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.425	0.440	0.010	3.7	40.0
Chloromethane	0.451	0.502	0.010	11.4	40.0
Vinyl chloride	0.454	0.491	0.100	8.1	30.0
Bromomethane	0.171	0.187	0.100	9.1	30.0
Chloroethane	0.263	0.274	0.010	4.3	40.0
Trichlorofluoromethane	0.511	0.531	0.010	3.8	40.0
1,1-Dichloroethene	0.306	0.312	0.100	1.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.323	0.336	0.010	3.9	40.0
Acetone	0.014	0.012	0.010	-12.4	40.0
Carbon disulfide	0.986	0.993	0.010	0.7	40.0
Methyl acetate	0.053	0.050	0.010	-4.1	40.0
Methylene chloride	0.250	0.245	0.010	-2.2	40.0
trans-1,2-Dichloroethene	0.326	0.327	0.010	0.4	40.0
Methyl tert-butyl ether	0.397	0.366	0.010	-7.7	40.0
1,1-Dichloroethane	0.597	0.619	0.200	3.8	30.0
cis-1,2-Dichloroethene	0.316	0.313	0.010	-0.7	40.0
2-Butanone	0.028	0.025	0.010	-10.4	40.0
Bromochloromethane	0.090	0.085	0.050	-4.6	30.0
Chloroform	0.500	0.506	0.200	1.1	30.0
1,1,1-Trichloroethane	0.625	0.656	0.100	5.0	30.0
Cyclohexane	0.890	0.954	0.010	7.2	40.0
Carbon tetrachloride	0.522	0.552	0.100	5.8	30.0
Benzene	1.820	1.915	0.400	5.2	30.0
1,2-Dichloroethane	0.206	0.202	0.100	-1.9	30.0
Trichloroethene	0.427	0.452	0.300	5.9	30.0
Methylcyclohexane	0.679	0.738	0.010	8.6	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Instrument ID: J.i Calibration Date: 04/12/2010 Time: 0805

Lab File ID: JAQ005HV Init. Calib. Date(s): 04/05/2010 04/05/2010

EPA Sample No.(VSTD#####): VSTD005JP Init. Calib. Time(s): 1318 1505

Heated Purge: (Y/N)N GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.373	0.385	0.010	3.1	40.0
Bromodichloromethane	0.386	0.393	0.200	1.8	30.0
cis-1,3-Dichloropropene	0.500	0.516	0.200	3.2	30.0
4-Methyl-2-pentanone	0.096	0.095	0.010	-1.1	40.0
Toluene	1.916	1.988	0.400	3.8	30.0
trans-1,3-Dichloropropene	0.343	0.348	0.100	1.5	30.0
1,1,2-Trichloroethane	0.156	0.153	0.100	-1.8	30.0
Tetrachloroethene	0.340	0.359	0.100	5.8	30.0
2-Hexanone	0.061	0.059	0.010	-3.4	40.0
Dibromochloromethane	0.182	0.182	0.100	0.5	30.0
1,2-Dibromoethane	0.137	0.136	0.010	-0.4	30.0
Chlorobenzene	1.014	1.041	0.500	2.7	30.0
Ethylbenzene	2.128	2.224	0.100	4.5	30.0
o-Xylene	0.730	0.739	0.300	1.3	30.0
m,p-Xylene	0.793	0.830	0.300	4.7	30.0
Styrene	1.070	1.094	0.300	2.3	30.0
Bromoform	0.191	0.193	0.050	1.0	30.0
Isopropylbenzene	2.040	2.168	0.010	6.3	40.0
1,1,2,2-Tetrachloroethane	0.147	0.143	0.100	-2.4	30.0
1,3-Dichlorobenzene	1.634	1.673	0.400	2.4	30.0
1,4-Dichlorobenzene	1.560	1.575	0.400	0.9	30.0
1,2-Dichlorobenzene	1.209	1.235	0.400	2.2	30.0
1,2-Dibromo-3-chloropropane	0.050	0.045	0.010	-9.2	40.0
1,2,4-Trichlorobenzene	0.553	0.561	0.200	1.5	30.0
1,2,3-Trichlorobenzene	0.369	0.378	0.200	2.3	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Instrument ID: J.i Calibration Date: 04/12/2010 Time: 0805

Lab File ID: JAQ005HV Init. Calib. Date(s): 04/05/2010 04/05/2010

EPA Sample No.(VSTD#####): VSTD005JP Init. Calib. Time(s): 1318 1505

Heated Purge: (Y/N)N GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.411	0.433	0.010	5.4	30.0
Chloroethane-d5	0.310	0.334	0.010	7.8	40.0
1,1-Dichloroethene-d2	0.683	0.716	0.010	4.8	30.0
2-Butanone-d5	0.027	0.024	0.010	-10.9	40.0
Chloroform-d	0.541	0.541	0.010	0.0	30.0
1,2-Dichloroethane-d4	0.169	0.160	0.010	-5.5	30.0
Benzene-d6	1.760	1.817	0.400	3.3	30.0
1,2-Dichloropropane-d6	0.499	0.461	0.010	-7.6	40.0
Toluene-d8	1.583	1.642	0.010	3.7	30.0
trans-1,3-Dichloropropene-d4	0.312	0.322	0.010	3.3	30.0
2-Hexanone-d5	0.033	0.029	0.010	-13.7	40.0
1,1,2,2-Tetrachloroethane-d2	0.151	0.147	0.010	-3.0	30.0
1,2-Dichlorobenzene-d4	0.764	0.742	0.010	-2.9	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Instrument ID: J.i Calibration Date: 04/12/2010 Time: 1657

Lab File ID: JAQ05HC1 Init. Calib. Date(s): 04/05/2010 04/05/2010

EPA Sample No.(VSTD#####): VSTD005PJ Init. Calib. Time(s): 1318 1505

Heated Purge: (Y/N)N GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.425	0.443	0.010	4.3	50.0
Chloromethane	0.451	0.502	0.010	11.3	50.0
Vinyl chloride	0.454	0.501	0.010	10.3	50.0
Bromomethane	0.171	0.178	0.010	3.8	50.0
Chloroethane	0.263	0.280	0.010	6.6	50.0
Trichlorofluoromethane	0.511	0.539	0.010	5.5	50.0
1,1-Dichloroethene	0.306	0.315	0.010	2.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.323	0.342	0.010	5.8	50.0
Acetone	0.014	0.012	0.010	-14.8	50.0
Carbon disulfide	0.986	1.008	0.010	2.2	50.0
Methyl acetate	0.053	0.051	0.010	-2.3	50.0
Methylene chloride	0.250	0.249	0.010	-0.7	50.0
trans-1,2-Dichloroethene	0.326	0.334	0.010	2.5	50.0
Methyl tert-butyl ether	0.397	0.368	0.010	-7.1	50.0
1,1-Dichloroethane	0.597	0.634	0.010	6.4	50.0
cis-1,2-Dichloroethene	0.316	0.324	0.010	2.6	50.0
2-Butanone	0.028	0.027	0.010	-4.7	50.0
Bromochloromethane	0.090	0.089	0.010	-0.7	50.0
Chloroform	0.500	0.513	0.010	2.6	50.0
1,1,1-Trichloroethane	0.625	0.663	0.010	6.1	50.0
Cyclohexane	0.890	0.968	0.010	8.8	50.0
Carbon tetrachloride	0.522	0.560	0.010	7.3	50.0
Benzene	1.820	1.925	0.010	5.8	50.0
1,2-Dichloroethane	0.206	0.201	0.010	-2.0	50.0
Trichloroethene	0.427	0.455	0.010	6.6	50.0
Methylcyclohexane	0.679	0.746	0.010	9.7	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Instrument ID: J.i Calibration Date: 04/12/2010 Time: 1657

Lab File ID: JAQ05HC1 Init. Calib. Date(s): 04/05/2010 04/05/2010

EPA Sample No.(VSTD#####): VSTD005PJ Init. Calib. Time(s): 1318 1505

Heated Purge: (Y/N)N GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.373	0.394	0.010	5.7	50.0
Bromodichloromethane	0.386	0.392	0.010	1.5	50.0
cis-1,3-Dichloropropene	0.500	0.508	0.010	1.6	50.0
4-Methyl-2-pentanone	0.096	0.095	0.010	-1.4	50.0
Toluene	1.916	2.006	0.010	4.7	50.0
trans-1,3-Dichloropropene	0.343	0.344	0.010	0.3	50.0
1,1,2-Trichloroethane	0.156	0.156	0.010	-0.3	50.0
Tetrachloroethene	0.340	0.362	0.010	6.5	50.0
2-Hexanone	0.061	0.061	0.010	-0.7	50.0
Dibromochloromethane	0.182	0.185	0.010	1.7	50.0
1,2-Dibromoethane	0.137	0.134	0.010	-2.1	50.0
Chlorobenzene	1.014	1.039	0.010	2.5	50.0
Ethylbenzene	2.128	2.272	0.010	6.8	50.0
o-Xylene	0.730	0.753	0.010	3.2	50.0
m,p-Xylene	0.793	0.844	0.010	6.5	50.0
Styrene	1.070	1.104	0.010	3.2	50.0
Bromoform	0.191	0.189	0.010	-1.1	50.0
Isopropylbenzene	2.040	2.171	0.010	6.4	50.0
1,1,2,2-Tetrachloroethane	0.147	0.142	0.010	-3.3	50.0
1,3-Dichlorobenzene	1.634	1.707	0.010	4.5	50.0
1,4-Dichlorobenzene	1.560	1.614	0.010	3.4	50.0
1,2-Dichlorobenzene	1.209	1.221	0.010	1.0	50.0
1,2-Dibromo-3-chloropropane	0.050	0.046	0.010	-7.6	50.0
1,2,4-Trichlorobenzene	0.553	0.567	0.010	2.6	50.0
1,2,3-Trichlorobenzene	0.369	0.389	0.010	5.4	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

Instrument ID: J.i Calibration Date: 04/12/2010 Time: 1657

Lab File ID: JAQ05HC1 Init. Calib. Date(s): 04/05/2010 04/05/2010

EPA Sample No.(VSTD#####): VSTD005PJ Init. Calib. Time(s): 1318 1505

Heated Purge: (Y/N)N GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.411	0.435	0.010	5.9	50.0
Chloroethane-d5	0.310	0.348	0.010	12.1	50.0
1,1-Dichloroethene-d2	0.683	0.732	0.010	7.2	50.0
2-Butanone-d5	0.027	0.026	0.010	-4.2	50.0
Chloroform-d	0.541	0.556	0.010	2.8	50.0
1,2-Dichloroethane-d4	0.169	0.171	0.010	1.0	50.0
Benzene-d6	1.760	1.841	0.010	4.6	50.0
1,2-Dichloropropane-d6	0.499	0.520	0.010	4.1	50.0
Toluene-d8	1.583	1.680	0.010	6.1	50.0
trans-1,3-Dichloropropene-d4	0.312	0.308	0.010	-1.3	50.0
2-Hexanone-d5	0.033	0.030	0.010	-10.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.151	0.144	0.010	-5.0	50.0
1,2-Dichlorobenzene-d4	0.764	0.782	0.010	2.3	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TESTAMERICA BURLINGTON Contract: 8E-00302

Lab Code: STLV Case No.: EVEREST Mod. Ref No.: SDG No.: 136771

GC Column: DB-624 ID: 0.53 (mm) Init. Calib. Date(s): 04/05/2010 04/05/2010

EPA Sample No.(VSTD#####): VSTD005JP Date Analyzed: 04/12/2010

Lab File ID (Standard): JAQ005HV Time Analyzed: 0805

Instrument ID: J.i Heated Purge: (Y/N) N

		IS1(CBZ) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	725867	9.06	977171	5.67	291402	11.89
	UPPER LIMIT	1016214	9.39	1368039	6.01	407963	12.22
	LOWER LIMIT	435520	8.72	586303	5.34	174841	11.55
	EPA SAMPLE NO.						
01	VBLKJP	743197	9.06	989158	5.67	289390	11.89
02	MW3W29745	741303	9.06	1000319	5.67	295431	11.89
03	SB78W29756	722353	9.06	970110	5.68	282818	11.89
04	QCTBW29763	731267	9.06	992648	5.67	285677	11.89
05	MW2W29744DL	693999	9.06	928515	5.68	271351	11.89
06	SB88W29758DL	699771	9.06	940265	5.68	281255	11.89
07	MW2W29744	717438	9.06	970475	5.68	278897	11.89
08	VIBLKJT	713956	9.06	957138	5.68	272954	11.89
09	SB88W29758	710042	9.06	959469	5.68	283025	11.89
10	VIBLKJU	697931	9.06	958904	5.68	276118	11.89
11	VHBLK01	716676	9.06	956420	5.67	279226	11.89
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

Supplement 3:

Automatically Recorded Water Levels

TABLE S.3 Automatically recorded water levels at Everest, October 2009 - October 2010

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
10/1/09	0:00		13.190	30.027		48.159	39.346
10/1/09	4:00		13.252	29.962		48.113	39.279
10/1/09	8:00		13.288	29.930		48.046	39.252
10/1/09	12:00		13.307	29.925		48.016	39.234
10/1/09	16:00		13.201	30.047		48.109	39.326
10/1/09	20:00		13.054	30.205		48.258	39.472
10/2/09	0:00		13.033	30.186		48.274	39.498
10/2/09	4:00		13.044	30.130		48.234	39.461
10/2/09	8:00		13.021	30.114		48.219	39.449
10/2/09	12:00		12.997	30.119		48.227	39.459
10/2/09	16:00		13.017	30.135		48.233	39.472
10/2/09	20:00		12.927	30.228		48.326	39.565
10/3/09	0:00		12.876	30.258		48.375	39.616
10/3/09	4:00		12.821	30.285		48.409	39.652
10/3/09	8:00		12.950	30.336		48.465	39.707
10/3/09	12:00		12.891	30.387		48.534	39.774
10/3/09	16:00		12.923	30.369		48.544	39.787
10/3/09	20:00		13.029	30.403		48.578	39.823
10/4/09	0:00		12.917	30.479		48.669	39.910
10/4/09	4:00		13.056	30.481		48.695	39.940
10/4/09	8:00		12.986	30.503		48.728	39.974
10/4/09	12:00		13.023	30.530		48.782	40.027
10/4/09	16:00		13.152	30.444		48.721	39.976
10/4/09	20:00		13.174	30.456		48.737	39.990
10/5/09	0:00		13.123	30.484		48.778	40.034
10/5/09	4:00		13.125	30.447		48.760	40.020
10/5/09	8:00		13.105	30.428		48.741	40.009
10/5/09	12:00		13.313	30.366		48.705	39.978
10/5/09	16:00		13.494	30.246		48.588	39.872
10/5/09	20:00		13.578	30.211		48.542	39.831
10/6/09	0:00		13.631	30.172		48.502	39.801
10/6/09	4:00		13.631	30.168		48.494	39.792
10/6/09	8:00		13.545	30.239		48.536	39.847
10/6/09	12:00		13.423	30.347		48.639	39.949
10/6/09	16:00		13.441	30.373		48.677	39.991
10/6/09	20:00		13.360	30.466		48.774	40.082
10/7/09	0:00		13.270	30.514		48.848	40.160
10/7/09	4:00		13.333	30.523		48.877	40.187
10/7/09	8:00		13.337	30.544		48.909	40.222
10/7/09	12:00		13.329	30.516		48.907	40.225
10/7/09	16:00		13.466	30.433		48.838	40.165
10/7/09	20:00		13.511	30.424		48.826	40.158
10/8/09	0:00		13.492	30.442		48.850	40.183
10/8/09	4:00		13.511	30.408		48.856	40.174
10/8/09	8:00		13.510	30.398		48.861	40.160
10/8/09	12:00		13.482	30.419		48.871	40.183
10/8/09	16:00		13.413	30.470		48.857	40.233
10/8/09	20:00		13.374	30.482		48.851	40.258

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
10/9/09	0:00		13.325	30.507		48.943	40.298
10/9/09	4:00		13.274	30.532		48.971	40.331
10/9/09	8:00		13.368	30.574		49.030	40.387
10/9/09	12:00		13.313	30.611		49.076	40.434
10/9/09	16:00		13.386	30.576		49.062	40.427
10/9/09	20:00		13.333	30.643		49.129	40.491
10/10/09	0:00		13.582	30.675		49.189	40.551
10/10/09	4:00		13.584	30.718		49.240	40.602
10/10/09	8:00		13.682	30.791		49.340	40.698
10/10/09	12:00		13.564	30.840		49.427	40.784
10/10/09	16:00		13.594	30.784		49.407	40.767
10/10/09	20:00		13.572	30.773		49.411	40.773
10/11/09	0:00		13.519	30.782		49.441	40.802
10/11/09	4:00		13.508	30.757		49.439	40.804
10/11/09	8:00		13.460	30.773		49.461	40.829
10/11/09	12:00		13.468	30.738		49.449	40.818
10/11/09	16:00		13.574	30.629		49.357	40.736
10/11/09	20:00		13.582	30.618		49.334	40.718
10/12/09	0:00		13.602	30.578		49.306	40.696
10/12/09	4:00		13.645	30.524		49.260	40.656
10/12/09	8:00		13.615	30.549		49.264	40.667
10/12/09	12:00		13.586	30.581		49.298	40.706
10/12/09	16:00		13.653	30.562		49.276	40.695
10/12/09	20:00		13.574	30.665		49.370	40.787
10/13/09	0:00		13.894	30.734		49.451	40.869
10/13/09	4:00		13.855	30.748		49.485	40.906
10/13/09	8:00		13.837	30.745		49.497	40.920
10/13/09	12:00		13.835	30.733		49.512	40.937
10/13/09	16:00		13.949	30.636		49.425	40.860
10/13/09	20:00		13.941	30.629		49.433	40.847
10/14/09	0:00		13.904	30.634		49.433	40.867
10/14/09	4:00		13.912	30.604		49.439	40.844
10/14/09	8:00		13.876	30.623		49.441	40.860
10/14/09	12:00		13.937	30.563		49.435	40.818
10/14/09	16:00		14.035	30.477		49.258	40.733
10/14/09	20:00		14.084	30.426		49.252	40.704
10/15/09	0:00		14.047	30.473		49.249	40.715
10/15/09	4:00		14.055	30.459		49.256	40.709
10/15/09	8:00		14.004	30.510		49.252	40.751
10/15/09	12:00		13.959	30.554		49.304	40.806
10/15/09	16:00		13.971	30.556		49.308	40.814
10/15/09	20:00		13.906	30.632		49.372	40.880
10/16/09	0:00		13.866	30.664		49.419	40.931
10/16/09	4:00		13.808	30.701		49.471	40.982
10/16/09	8:00		13.731	30.759		49.536	41.047
10/16/09	12:00		13.676	30.801		49.600	41.113
10/16/09	16:00		13.733	30.756		49.576	41.095
10/16/09	20:00		13.712	30.789		49.612	41.129

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
10/17/09	0:00		14.076	30.835		49.673	41.189
10/17/09	4:00		13.984	30.877		49.713	41.253
10/17/09	8:00		13.880	30.941		49.820	41.335
10/17/09	12:00		13.825	30.969		49.887	41.402
10/17/09	16:00		13.902	30.897		49.848	41.367
10/17/09	20:00		13.929	30.867		49.818	41.344
10/18/09	0:00		13.941	30.823		49.800	41.329
10/18/09	4:00		13.951	30.773		49.760	41.291
10/18/09	8:00		13.955	30.731		49.722	41.260
10/18/09	12:00		14.006	30.671		49.671	41.215
10/18/09	16:00		14.200	30.553		49.534	41.095
10/18/09	20:00		14.273	30.539		49.493	41.060
10/19/09	0:00		14.314	30.512		49.461	41.036
10/19/09	4:00		14.351	30.481		49.413	40.996
10/19/09	8:00		14.326	30.502		49.417	41.007
10/19/09	12:00		14.312	30.526		49.437	41.035
10/19/09	16:00		14.438	30.477		49.383	40.993
10/19/09	20:00		14.475	30.502		49.393	41.009
10/20/09	0:00		14.453	30.542		49.431	41.051
10/20/09	4:00		14.477	30.528		49.421	41.047
10/20/09	8:00		14.479	30.530		49.421	41.051
10/20/09	12:00		14.475	30.553		49.441	41.076
10/20/09	16:00	23.758	14.778	30.525		49.439	41.058
10/20/09	20:00	23.762	14.697	30.563		49.465	41.091
10/21/09	0:00	23.783	14.713	30.636		49.542	41.167
10/21/09	4:00	23.793	14.723	30.629		49.560	41.182
10/21/09	8:00	23.803	14.692	30.643		49.564	41.200
10/21/09	12:00	23.816	14.746	30.660		49.595	41.231
10/21/09	16:00	23.822	14.754	30.622		49.560	41.206
10/21/09	20:00	23.826	14.770	30.627		49.560	41.215
10/22/09	0:00	23.775	14.788	30.588		49.556	41.184
10/22/09	4:00	23.739	14.739	30.542		49.556	41.109
10/22/09	8:00	23.733	14.676	30.530		49.558	41.087
10/22/09	12:00	23.721	14.644	30.486		49.566	41.084
10/22/09	16:00	23.694	14.623	30.431		49.578	41.062
10/22/09	20:00	23.677	14.470	30.436		49.560	41.051
10/23/09	0:00	23.665	14.385	30.424		49.479	41.042
10/23/09	4:00	23.646	14.325	30.401		49.389	41.025
10/23/09	8:00	23.636	14.309	30.456		49.435	41.067
10/23/09	12:00	23.634	14.291	30.503		49.489	41.120
10/23/09	16:00	23.632	14.268	30.511		49.514	41.142
10/23/09	20:00	23.634	14.246	30.556		49.570	41.191
10/24/09	0:00	23.632	14.236	30.549		49.584	41.202
10/24/09	4:00	23.630	14.219	30.546		49.590	41.204
10/24/09	8:00	23.624	14.209	30.537		49.592	41.204
10/24/09	12:00	23.620	14.268	30.540		49.600	41.209
10/24/09	16:00	23.603	14.179	30.459		49.522	41.135
10/24/09	20:00	23.597	14.168	30.505		49.538	41.149

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
10/25/09	0:00	23.599	14.158	30.530		49.574	41.180
10/25/09	4:00	23.601	14.154	30.567		49.610	41.216
10/25/09	8:00	23.605	14.152	30.611		49.651	41.255
10/25/09	12:00	23.616	14.154	30.659		49.719	41.317
10/25/09	16:00	23.620	14.152	30.673		49.727	41.327
10/25/09	20:00	23.642	14.158	30.796		49.842	41.433
10/26/09	0:00	23.667	14.160	30.851		49.935	41.520
10/26/09	4:00	23.686	14.175	30.879		49.981	41.564
10/26/09	8:00	23.702	14.181	30.921		50.030	41.610
10/26/09	12:00	23.717	14.197	30.913		50.060	41.635
10/26/09	16:00	23.715	14.187	30.823		49.989	41.568
10/26/09	20:00	23.717	14.187	30.801		49.973	41.549
10/27/09	0:00	23.713	14.183	30.750		49.933	41.511
10/27/09	4:00	23.704	14.175	30.690		49.878	41.460
10/27/09	8:00	23.694	14.177	30.646		49.824	41.406
10/27/09	12:00	23.680	14.181	30.588		49.770	41.357
10/27/09	16:00	23.657	14.162	30.495		49.653	41.247
10/27/09	20:00	23.644	14.158	30.500		49.633	41.229
10/28/09	0:00	23.642	14.158	30.539		49.663	41.260
10/28/09	4:00	23.636	14.156	30.542		49.655	41.260
10/28/09	8:00	23.638	14.160	30.560		49.673	41.276
10/28/09	12:00	23.638	14.170	30.574		49.689	41.295
10/28/09	16:00	23.634	14.168	30.558		49.655	41.267
10/28/09	20:00	23.646	14.177	30.615		49.713	41.324
10/29/09	0:00	23.654	14.185	30.648		49.755	41.366
10/29/09	4:00	23.646	14.183	30.555		49.679	41.295
10/29/09	8:00	23.640	14.187	30.539		49.643	41.264
10/29/09	12:00	23.632	14.264	30.533		49.697	41.251
10/29/09	16:00	23.597	14.301	30.392		49.717	41.138
10/29/09	20:00	23.588	14.215	30.436		49.709	41.146
10/30/09	0:00	23.580	14.183	30.428		49.709	41.118
10/30/09	4:00		14.038	30.498		49.530	41.173
10/30/09	8:00		14.136	30.526		49.560	41.204
10/30/09	12:00		14.136	30.562		49.609	41.249
10/30/09	16:00		14.136	30.581		49.625	41.268
10/30/09	20:00		14.134	30.699		49.746	41.382
10/31/09	0:00		14.146	30.745		49.816	41.447
10/31/09	4:00		14.148	30.787		49.866	41.495
10/31/09	8:00		14.152	30.909		50.004	41.624
10/31/09	12:00		14.173	30.967		50.104	41.720
10/31/09	16:00		14.173	30.932		50.102	41.719
10/31/09	20:00		14.177	30.946		50.128	41.739
11/1/09	0:00		14.185	30.935		50.149	41.755
11/1/09	4:00		14.181	30.909		50.137	41.744
11/1/09	8:00		14.183	30.890		50.126	41.733
11/1/09	12:00		14.246	30.886		50.139	41.742
11/1/09	16:00		14.185	30.810		50.070	41.679
11/1/09	20:00		14.193	30.877		50.124	41.729

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
11/2/09	0:00		14.199	30.923		50.179	41.784
11/2/09	4:00		14.207	30.983		50.245	41.848
11/2/09	8:00		14.221	31.078		50.350	41.951
11/2/09	12:00		14.238	31.140		50.465	42.060
11/2/09	16:00		14.252	31.135		50.493	42.090
11/2/09	20:00		14.260	31.158		50.544	42.137
11/3/09	0:00		14.274	31.151		50.580	42.170
11/3/09	4:00		14.279	31.122		50.576	42.166
11/3/09	8:00		14.289	31.107		50.572	42.159
11/3/09	12:00		14.291	31.043		50.534	42.124
11/3/09	16:00		14.285	30.897		50.399	41.999
11/3/09	20:00		14.283	30.886		50.360	41.964
11/4/09	0:00		14.289	30.911		50.374	41.979
11/4/09	4:00		14.289	30.928		50.391	41.999
11/4/09	8:00		14.295	31.015		50.465	42.075
11/4/09	12:00		14.313	31.084		50.550	42.157
11/4/09	16:00		14.324	31.073		50.558	42.170
11/4/09	20:00		14.334	31.093		50.584	42.197
11/5/09	0:00		14.346	31.101		50.610	42.223
11/5/09	4:00		14.352	31.086		50.606	42.221
11/5/09	8:00		14.358	31.052		50.580	42.199
11/5/09	12:00		14.360	31.003		50.544	42.166
11/5/09	16:00		14.356	30.858		50.399	42.032
11/5/09	20:00		14.354	30.833		50.346	41.986
11/6/09	0:00		14.354	30.795		50.294	41.944
11/6/09	4:00		14.352	30.759		50.239	41.897
11/6/09	8:00		14.346	30.722		50.179	41.846
11/6/09	12:00		14.346	30.703		50.139	41.817
11/6/09	16:00		14.340	30.624		50.044	41.735
11/6/09	20:00		14.346	30.659		50.038	41.733
11/7/09	0:00		14.346	30.671		50.040	41.744
11/7/09	4:00		14.354	30.701		50.062	41.769
11/7/09	8:00		14.362	30.758		50.110	41.819
11/7/09	12:00		14.371	30.805		50.173	41.880
11/7/09	16:00		14.379	30.795		50.163	41.879
11/7/09	20:00		14.393	30.851		50.219	41.931
11/8/09	0:00		14.403	30.851		50.227	41.944
11/8/09	4:00		14.413	30.860		50.237	41.959
11/8/09	8:00		14.422	30.885		50.266	41.988
11/8/09	12:00		14.434	30.885		50.282	42.006
11/8/09	16:00		14.442	30.862		50.257	41.986
11/8/09	20:00		14.458	30.952		50.338	42.062
11/9/09	0:00		14.471	31.027		50.431	42.157
11/9/09	4:00		14.489	31.079		50.505	42.231
11/9/09	8:00		14.509	31.146		50.588	42.311
11/9/09	12:00		14.526	31.156		50.634	42.357
11/9/09	16:00		14.538	31.123		50.620	42.344
11/9/09	20:00		14.552	31.161		50.671	42.393

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
11/10/09	0:00		14.566	31.158		50.693	42.415
11/10/09	4:00		14.556	31.156		50.689	42.428
11/10/09	8:00		14.589	31.177		50.739	42.463
11/10/09	12:00		14.603	31.209		50.792	42.512
11/10/09	16:00		14.613	31.146		50.755	42.479
11/10/09	20:00		14.627	31.170		50.780	42.504
11/11/09	0:00		14.642	31.163		50.790	42.515
11/11/09	4:00		14.648	31.156		50.786	42.513
11/11/09	8:00		14.660	31.147		50.786	42.512
11/11/09	12:00		14.676	31.135		50.784	42.515
11/11/09	16:00		14.670	31.024		50.679	42.419
11/11/09	20:00		14.676	31.003		50.647	42.392
11/12/09	0:00		14.680	30.974		50.610	42.363
11/12/09	4:00		14.681	30.923		50.550	42.308
11/12/09	8:00		14.681	30.870		50.477	42.244
11/12/09	12:00		14.681	30.814		50.411	42.186
11/12/09	16:00		14.678	30.715		50.278	42.066
11/12/09	20:00		14.678	30.721		50.245	42.039
11/13/09	0:00		14.681	30.717		50.219	42.024
11/13/09	4:00		14.678	30.668		50.153	41.966
11/13/09	8:00		14.680	30.671		50.122	41.944
11/13/09	12:00		14.685	30.661		50.104	41.933
11/13/09	16:00		14.683	30.645		50.074	41.909
11/13/09	20:00		14.691	30.692		50.094	41.937
11/14/09	0:00		14.709	30.803		50.195	42.039
11/14/09	4:00		14.721	30.865		50.257	42.106
11/14/09	8:00		14.734	30.925		50.330	42.179
11/14/09	12:00		14.752	30.982		50.411	42.257
11/14/09	16:00		14.766	30.978		50.427	42.277
11/14/09	20:00		14.785	31.026		50.489	42.335
11/15/09	0:00		14.801	31.063		50.546	42.390
11/15/09	4:00		14.815	31.066		50.568	42.412
11/15/09	8:00		14.829	31.123		50.634	42.473
11/15/09	12:00		14.862	31.117		50.657	42.493
11/15/09	16:00		14.884	31.061		50.661	42.468
11/15/09	20:00		14.805	31.132		50.649	42.526
11/16/09	0:00		14.882	31.135		50.653	42.553
11/16/09	4:00		14.878	31.109		50.657	42.537
11/16/09	8:00		14.835	31.101		50.655	42.530
11/16/09	12:00		14.766	31.075		50.649	42.512
11/16/09	16:00		14.787	31.031		50.655	42.470
11/16/09	20:00		14.736	31.066		50.649	42.503
11/17/09	0:00		14.729	31.075		50.653	42.517
11/17/09	4:00		14.807	31.058		50.657	42.508
11/17/09	8:00		14.764	31.063		50.661	42.506
11/17/09	12:00		14.760	31.086		50.673	42.541
11/17/09	16:00		14.768	31.033		50.679	42.512
11/17/09	20:00		14.654	31.036		50.681	42.519

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
11/18/09	0:00		14.591	30.973		50.671	42.492
11/18/09	4:00		14.369	30.950		50.657	42.466
11/18/09	8:00		14.305	30.924		50.636	42.432
11/18/09	12:00		14.252	30.916		50.636	42.417
11/18/09	16:00		14.209	30.862		50.594	42.364
11/18/09	20:00		14.087	30.883		50.608	42.368
11/19/09	0:00		14.004	30.895		50.626	42.375
11/19/09	4:00		14.048	30.895		50.641	42.379
11/19/09	8:00		14.006	30.929		50.669	42.395
11/19/09	12:00		13.983	30.964		50.721	42.437
11/19/09	16:00		13.946	30.913		50.683	42.395
11/19/09	20:00		13.920	30.982		50.745	42.443
11/20/09	0:00		13.898	31.008		50.786	42.473
11/20/09	4:00		13.873	30.992		50.786	42.464
11/20/09	8:00		13.853	30.998		50.792	42.462
11/20/09	12:00		13.851	31.033		50.836	42.497
11/20/09	16:00		13.812	30.962		50.776	42.432
11/20/09	20:00		13.792	30.961		50.768	42.415
11/21/09	0:00		13.777	30.932		50.746	42.386
11/21/09	4:00		13.761	30.901		50.705	42.343
11/21/09	8:00		13.741	30.897		50.691	42.321
11/21/09	12:00		13.735	30.881		50.677	42.304
11/21/09	16:00		13.708	30.798		50.578	42.206
11/21/09	20:00		13.690	30.825		50.586	42.206
11/22/09	0:00		13.680	30.832		50.582	42.199
11/22/09	4:00		13.675	30.848		50.590	42.204
11/22/09	8:00		13.663	30.855		50.584	42.195
11/22/09	12:00		13.659	30.874		50.604	42.208
11/22/09	16:00		13.645	30.814		50.544	42.146
11/22/09	20:00		13.637	30.844		50.554	42.150
11/23/09	0:00		13.631	30.839		50.546	42.141
11/23/09	4:00		13.628	30.828		50.532	42.122
11/23/09	8:00		13.622	30.846		50.538	42.126
11/23/09	12:00		13.622	30.862		50.550	42.135
11/23/09	16:00		13.612	30.820		50.503	42.086
11/23/09	20:00		13.608	30.830		50.503	42.082
11/24/09	0:00		13.612	30.786		50.475	42.050
11/24/09	4:00		13.675	30.716		50.481	41.993
11/24/09	8:00		13.506	30.772		50.459	42.024
11/24/09	12:00		13.394	30.834		50.447	42.157
11/24/09	16:00		13.333	30.848		50.443	42.208
11/24/09	20:00		13.410	30.888		50.558	42.175
11/25/09	0:00		13.367	30.885		50.578	42.097
11/25/09	4:00		13.331	30.869		50.584	42.091
11/25/09	8:00		13.290	30.911		50.630	42.124
11/25/09	12:00		13.323	30.901		50.657	42.183
11/25/09	16:00		13.221	30.883		50.634	42.106
11/25/09	20:00		13.190	30.903		50.667	42.121

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
11/26/09	0:00		13.160	30.915		50.685	42.128
11/26/09	4:00		13.139	30.917		50.705	42.133
11/26/09	8:00		13.110	30.924		50.717	42.133
11/26/09	12:00		13.101	30.948		50.753	42.155
11/26/09	16:00		13.074	30.862		50.681	42.073
11/26/09	20:00		13.054	30.844		50.655	42.039
11/27/09	0:00		13.025	30.792		50.602	41.973
11/27/09	4:00		13.007	30.732		50.528	41.892
11/27/09	8:00		12.982	30.686		50.463	41.822
11/27/09	12:00		12.986	30.668		50.433	41.782
11/27/09	16:00		12.941	30.596		50.328	41.677
11/27/09	20:00		12.927	30.605		50.306	41.648
11/28/09	0:00		12.909	30.598		50.280	41.615
11/28/09	4:00		12.897	30.603		50.268	41.597
11/28/09	8:00		12.886	30.619		50.262	41.586
11/28/09	12:00		12.905	30.615		50.257	41.575
11/28/09	16:00		12.868	30.564		50.187	41.502
11/28/09	20:00		12.860	30.612		50.213	41.517
11/29/09	0:00		12.856	30.631		50.219	41.522
11/29/09	4:00		12.852	30.677		50.257	41.553
11/29/09	8:00		12.858	30.776		50.356	41.639
11/29/09	12:00		12.874	30.855		50.453	41.724
11/29/09	16:00		12.872	30.834		50.443	41.711
11/29/09	20:00		12.880	30.890		50.507	41.764
11/30/09	0:00		12.886	30.911		50.548	41.795
11/30/09	4:00		12.891	30.910		50.556	41.795
11/30/09	8:00		12.897	30.896		50.550	41.782
11/30/09	12:00		12.905	30.871		50.538	41.762
11/30/09	16:00		12.891	30.790		50.453	41.679
11/30/09	20:00		12.887	30.760		50.411	41.633
12/1/09	0:00		12.886	30.733		50.370	41.591
12/1/09	4:00		12.882	30.675		50.302	41.524
12/1/09	8:00		12.872	30.640		50.245	41.462
12/1/09	12:00		12.874	30.635		50.219	41.435
12/1/09	16:00		12.860	30.575		50.139	41.357
12/1/09	20:00		12.858	30.615		50.151	41.366
12/2/09	0:00		12.870	30.682		50.199	41.415
12/2/09	4:00		12.874	30.712		50.231	41.442
12/2/09	8:00		12.876	30.734		50.243	41.451
12/2/09	12:00		12.884	30.735		50.259	41.466
12/2/09	16:00		12.884	30.712		50.223	41.429
12/2/09	20:00		12.895	30.795		50.300	41.497
12/3/09	0:00		12.907	30.841		50.356	41.548
12/3/09	4:00		12.917	30.887		50.413	41.597
12/3/09	8:00		12.929	30.922		50.455	41.635
12/3/09	12:00		12.946	30.961		50.514	41.686
12/3/09	16:00		12.954	30.950		50.514	41.684
12/3/09	20:00		12.968	31.002		50.568	41.733

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
12/4/09	0:00		12.974	31.005		50.592	41.755
12/4/09	4:00		12.993	31.007		50.598	41.757
12/4/09	8:00		12.992	30.979		50.578	41.733
12/4/09	12:00		13.003	30.961		50.568	41.722
12/4/09	16:00		13.003	30.866		50.471	41.630
12/4/09	20:00		13.001	30.834		50.429	41.588
12/5/09	0:00		13.001	30.804		50.384	41.550
12/5/09	4:00		13.005	30.756		50.324	41.491
12/5/09	8:00		13.001	30.744		50.284	41.453
12/5/09	12:00		13.001	30.751		50.284	41.453
12/5/09	16:00		13.003	30.688		50.199	41.375
12/5/09	20:00		12.992	30.744		50.229	41.404
12/6/09	0:00		12.907	30.811		50.296	41.466
12/6/09	4:00		12.874	30.841		50.324	41.497
12/6/09	8:00		12.838	30.859		50.338	41.515
12/6/09	12:00		12.831	30.885		50.372	41.544
12/6/09	16:00		12.984	30.772		50.253	41.435
12/6/09	20:00		12.946	30.801		50.270	41.446
12/7/09	0:00		12.866	30.864		50.320	41.497
12/7/09	4:00		12.776	30.982		50.443	41.610
12/7/09	8:00		12.803	31.002		50.475	41.646
12/7/09	12:00		12.844	31.062		50.552	41.719
12/7/09	16:00		12.927	31.016		50.538	41.697
12/7/09	20:00		12.939	30.982		50.516	41.675
12/8/09	0:00		12.978	30.927		50.461	41.620
12/8/09	4:00		13.070	30.846		50.382	41.539
12/8/09	8:00		13.258	30.679		50.227	41.377
12/8/09	12:00		13.453	30.513		50.072	41.186
12/8/09	16:00		13.621	30.383		50.084	40.991
12/8/09	20:00		13.676	30.349		50.084	40.884
12/9/09	0:00		13.663	30.372		50.070	40.853
12/9/09	4:00		13.425	30.599		49.983	41.020
12/9/09	8:00		13.253	30.753		49.949	41.186
12/9/09	12:00		13.101	30.887		50.122	41.340
12/9/09	16:00		13.068	30.908		50.169	41.386
12/9/09	20:00		12.995	30.965		50.249	41.460
12/10/09	0:00		12.964	30.986		50.294	41.499
12/10/09	4:00		12.944	30.993		50.314	41.520
12/10/09	8:00		12.913	31.012		50.348	41.551
12/10/09	12:00		12.870	31.041		50.415	41.606
12/10/09	16:00		12.880	31.026		50.403	41.600
12/10/09	20:00		12.856	31.041		50.427	41.624
12/11/09	0:00		12.833	31.056		50.451	41.648
12/11/09	4:00		12.809	31.072		50.483	41.675
12/11/09	8:00		12.811	31.062		50.481	41.673
12/11/09	12:00		12.801	31.067		50.507	41.695
12/11/09	16:00		12.880	30.984		50.427	41.624
12/11/09	20:00		12.915	30.995		50.435	41.630

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
12/12/09	0:00		12.954	30.961		50.403	41.600
12/12/09	4:00		12.986	30.945		50.378	41.580
12/12/09	8:00		13.054	30.882		50.314	41.520
12/12/09	12:00		13.131	30.824		50.251	41.462
12/12/09	16:00		13.233	30.739		50.143	41.362
12/12/09	20:00		13.235	30.744		50.116	41.338
12/13/09	0:00		13.237	30.750		50.104	41.331
12/13/09	4:00		13.200	30.792		50.112	41.360
12/13/09	8:00		13.159	30.831		50.149	41.398
12/13/09	12:00		13.147	30.843		50.197	41.426
12/13/09	16:00		13.249	30.750		50.096	41.337
12/13/09	20:00		13.300	30.716		50.038	41.284
12/14/09	0:00		13.384	30.649		49.957	41.211
12/14/09	4:00		13.394	30.651		49.913	41.173
12/14/09	8:00		13.133	30.891		49.945	41.360
12/14/09	12:00		12.919	31.056		50.239	41.557
12/14/09	16:00		12.891	31.120		50.395	41.658
12/14/09	20:00		12.897	31.185		50.505	41.757
12/15/09	0:00		12.899	31.249		50.606	41.849
12/15/09	4:00		12.807	31.291		50.703	41.937
12/15/09	8:00		12.740	31.316		50.753	41.984
12/15/09	12:00		12.676	31.344		50.838	42.055
12/15/09	16:00		12.758	31.273		50.804	42.022
12/15/09	20:00		12.756	31.257		50.802	42.019
12/16/09	0:00		12.772	31.228		50.786	42.004
12/16/09	4:00		12.827	31.164		50.727	41.948
12/16/09	8:00		12.901	31.097		50.651	41.877
12/16/09	12:00		12.946	31.060		50.618	41.840
12/16/09	16:00		13.267	30.998		50.530	41.766
12/16/09	20:00		13.284	30.997		50.501	41.740
12/17/09	0:00		13.329	30.960		50.459	41.706
12/17/09	4:00		13.355	30.938		50.415	41.666
12/17/09	8:00		13.382	30.916		50.372	41.628
12/17/09	12:00		13.408	30.912		50.358	41.620
12/17/09	16:00		13.492	30.870		50.294	41.564
12/17/09	20:00		13.414	30.912		50.314	41.586
12/18/09	0:00		13.404	30.917		50.314	41.589
12/18/09	4:00		13.398	30.905		50.288	41.569
12/18/09	8:00		13.380	30.917		50.294	41.578
12/18/09	12:00		13.398	30.916		50.296	41.580
12/18/09	16:00		13.465	30.889		50.253	41.544
12/18/09	20:00		13.420	30.923		50.284	41.575
12/19/09	0:00		13.349	30.967		50.322	41.613
12/19/09	4:00		13.321	30.986		50.348	41.640
12/19/09	8:00		13.241	31.041		50.399	41.691
12/19/09	12:00		13.186	31.085		50.457	41.749
12/19/09	16:00		13.223	31.050		50.437	41.728
12/19/09	20:00		13.194	31.072		50.461	41.751

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
12/20/09	0:00		13.229	31.030		50.429	41.722
12/20/09	4:00		13.262	30.995		50.391	41.686
12/20/09	8:00		13.319	30.940		50.332	41.633
12/20/09	12:00		13.315	30.953		50.334	41.631
12/20/09	16:00		13.374	30.961		50.322	41.626
12/20/09	20:00		13.284	31.041		50.403	41.704
12/21/09	0:00		13.243	31.064		50.429	41.733
12/21/09	4:00		13.235	31.048		50.425	41.729
12/21/09	8:00		13.221	31.035		50.413	41.717
12/21/09	12:00		13.249	31.007		50.395	41.702
12/21/09	16:00		13.400	30.940		50.310	41.622
12/21/09	20:00		13.453	30.884		50.237	41.557
12/22/09	0:00		13.418	30.889		50.231	41.551
12/22/09	4:00		13.425	30.868		50.195	41.518
12/22/09	8:00		13.384	30.894		50.201	41.528
12/22/09	12:00		13.351	30.928		50.233	41.562
12/22/09	16:00		13.412	30.917		50.215	41.548
12/22/09	20:00		13.358	30.958		50.245	41.577
12/23/09	0:00		13.351	30.947		50.251	41.582
12/23/09	4:00		13.410	30.877		50.197	41.524
12/23/09	8:00		13.412	30.875		50.201	41.489
12/23/09	12:00		13.427	30.854		50.211	41.477
12/23/09	16:00		13.486	30.778		50.229	41.571
12/23/09	20:00		13.382	30.826		50.215	41.658
12/24/09	0:00		13.280	30.845		50.209	41.704
12/24/09	4:00		13.186	30.838		50.205	41.717
12/24/09	8:00		13.072	30.843		50.197	41.708
12/24/09	12:00		13.001	30.808		50.187	41.691
12/24/09	16:00		12.980	30.694		50.185	41.651
12/24/09	20:00		12.909	30.667		50.173	41.609
12/25/09	0:00		12.993	30.517		50.187	41.524
12/25/09	4:00		12.978	30.464		50.185	41.260
12/25/09	8:00		12.866	30.471		50.183	41.065
12/25/09	12:00		12.809	30.484		50.181	41.055
12/25/09	16:00		12.785	30.461		50.189	41.045
12/25/09	20:00		12.715	30.491		50.189	41.024
12/26/09	0:00		12.634	30.528		50.183	41.005
12/26/09	4:00		12.548	30.568		50.173	40.989
12/26/09	8:00		12.442	30.628		50.163	40.971
12/26/09	12:00		12.305	30.718		50.151	40.949
12/26/09	16:00		12.193	30.783		50.141	40.933
12/26/09	20:00		12.106	30.822		50.132	40.929
12/27/09	0:00		12.071	30.819		50.128	40.924
12/27/09	4:00		12.049	30.798		50.126	40.907
12/27/09	8:00		11.951	30.865		50.114	40.880
12/27/09	12:00		11.814	30.955		50.102	40.849
12/27/09	16:00		11.771	30.955		50.102	40.845
12/27/09	20:00		11.806	30.981		50.096	40.831

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
12/28/09	0:00		11.773	30.970		50.094	40.818
12/28/09	4:00		11.745	30.965		50.090	40.804
12/28/09	8:00		11.737	30.962		50.086	40.791
12/28/09	12:00		11.773	31.018		50.072	41.025
12/28/09	16:00		11.773	31.020		50.072	41.156
12/28/09	20:00		11.767	31.080		50.056	41.256
12/29/09	0:00		11.767	31.057		50.058	41.266
12/29/09	4:00		11.739	31.057		50.054	41.271
12/29/09	8:00		11.759	31.009		50.108	41.287
12/29/09	12:00		11.816	30.967		50.183	41.275
12/29/09	16:00		11.926	30.849		50.266	41.278
12/29/09	20:00		11.987	30.782		50.306	41.266
12/30/09	0:00		12.030	30.731		50.320	41.251
12/30/09	4:00		12.093	30.658		50.312	41.235
12/30/09	8:00		12.153	30.597		50.286	41.220
12/30/09	12:00		12.163	30.584		50.245	41.198
12/30/09	16:00		12.211	30.535		50.185	41.186
12/30/09	20:00		12.150	30.586		50.161	41.149
12/31/09	0:00		12.053	30.669		50.147	41.120
12/31/09	4:00		11.930	30.764		50.124	41.089
12/31/09	8:00		11.836	30.831		50.132	41.067
12/31/09	12:00		11.692	30.937		50.227	41.216
12/31/09	16:00		11.671	30.942		50.336	41.204
12/31/09	20:00		11.620	30.962		50.409	41.302
1/1/10	0:00		11.596	30.986		50.461	41.280
1/1/10	4:00		11.667	30.994		50.491	41.351
1/1/10	8:00		11.681	30.983		50.509	41.338
1/1/10	12:00		11.657	31.025		50.534	41.391
1/1/10	16:00		11.714	30.997		50.560	41.402
1/1/10	20:00		11.679	31.002		50.574	41.420
1/2/10	0:00		11.665	31.043		50.606	41.520
1/2/10	4:00		11.689	31.031		50.620	41.498
1/2/10	8:00		11.722	30.979		50.602	41.482
1/2/10	12:00		11.757	30.957		50.584	41.462
1/2/10	16:00		11.849	30.856		50.497	41.417
1/2/10	20:00		11.843	30.852		50.433	41.340
1/3/10	0:00		11.824	30.858		50.433	41.338
1/3/10	4:00		11.824	30.847		50.419	41.324
1/3/10	8:00		11.798	30.863		50.403	41.315
1/3/10	12:00		11.740	30.907		50.441	41.353
1/3/10	16:00		11.753	30.881		50.427	41.326
1/3/10	20:00		11.718	30.921		50.451	41.357
1/4/10	0:00		11.693	30.937		50.481	41.377
1/4/10	4:00		11.722	30.930		50.477	41.369
1/4/10	8:00		11.712	30.941		50.477	41.373
1/4/10	12:00		11.689	30.960		50.503	41.391
1/4/10	16:00		11.753	30.888		50.449	41.322
1/4/10	20:00		11.763	30.877		50.417	41.302

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
1/5/10	0:00		11.773	30.867		50.401	41.284
1/5/10	4:00		11.787	30.863		50.376	41.267
1/5/10	8:00		11.781	30.870		50.370	41.266
1/5/10	12:00		11.786	30.863		50.374	41.258
1/5/10	16:00		11.869	30.787		50.302	41.176
1/5/10	20:00		11.902	30.763		50.247	41.135
1/6/10	0:00		11.930	30.727		50.209	41.095
1/6/10	4:00		11.969	30.705		50.153	41.042
1/6/10	8:00		12.024	30.659		50.084	40.980
1/6/10	12:00		12.030	30.657		50.054	40.953
1/6/10	16:00		12.081	30.606		49.985	40.882
1/6/10	20:00		11.985	30.697		50.005	40.938
1/7/10	0:00		11.904	30.747		50.080	40.995
1/7/10	4:00		11.924	30.736		50.088	40.991
1/7/10	8:00		11.890	30.761		50.076	40.993
1/7/10	12:00		11.777	30.865		50.167	41.091
1/7/10	16:00		11.765	30.869		50.191	41.109
1/7/10	20:00		11.716	30.907		50.235	41.149
1/8/10	0:00		11.677	30.937		50.284	41.189
1/8/10	4:00		11.720	30.960		50.310	41.216
1/8/10	8:00		11.706	30.958		50.314	41.216
1/8/10	12:00		11.745	30.999		50.368	41.262
1/8/10	16:00		11.802	30.930		50.328	41.211
1/8/10	20:00		11.787	30.946		50.324	41.220
1/9/10	0:00		11.773	30.950		50.328	41.222
1/9/10	4:00		11.779	30.960		50.332	41.227
1/9/10	8:00		11.771	30.958		50.334	41.229
1/9/10	12:00		11.757	31.011		50.380	41.275
1/9/10	16:00		11.804	30.967		50.346	41.238
1/9/10	20:00		11.853	30.943		50.326	41.222
1/10/10	0:00		11.871	30.928		50.314	41.207
1/10/10	4:00		11.914	30.884		50.278	41.164
1/10/10	8:00		11.983	30.823		50.205	41.095
1/10/10	12:00		12.038	30.777		50.145	41.035
1/10/10	16:00		12.179	30.646		49.987	40.880
1/10/10	20:00		12.158	30.682		49.971	40.887
1/11/10	0:00		12.165	30.678		49.955	40.873
1/11/10	4:00		12.156	30.691		49.939	40.865
1/11/10	8:00		12.091	30.756		49.967	40.905
1/11/10	12:00		11.985	30.844		50.058	40.991
1/11/10	16:00		11.963	30.860		50.090	41.020
1/11/10	20:00		11.901	30.916		50.157	41.084
1/12/10	0:00		11.869	30.945		50.191	41.120
1/12/10	4:00		11.863	30.934		50.199	41.120
1/12/10	8:00		11.892	30.904		50.185	41.100
1/12/10	12:00		11.920	30.888		50.181	41.089
1/12/10	16:00		12.026	30.791		50.072	40.985
1/12/10	20:00		12.085	30.744		50.001	40.926

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
1/13/10	0:00		12.160	30.685		49.933	40.858
1/13/10	4:00		12.224	30.634		49.856	40.789
1/13/10	8:00		12.281	30.590		49.782	40.722
1/13/10	12:00		12.285	30.595		49.764	40.704
1/13/10	16:00		12.391	30.511		49.663	40.605
1/13/10	20:00		12.364	30.546		49.626	40.600
1/14/10	0:00		12.352	30.562		49.643	40.607
1/14/10	4:00		12.358	30.560		49.616	40.591
1/14/10	8:00		12.303	30.611		49.637	40.620
1/14/10	12:00		12.201	30.703		49.699	40.713
1/14/10	16:00		12.197	30.705		49.701	40.720
1/14/10	20:00		12.116	30.774		49.719	40.786
1/15/10	0:00		12.067	30.807		49.719	40.831
1/15/10	4:00		12.020	30.842		49.713	40.867
1/15/10	8:00		12.030	30.825		49.711	40.867
1/15/10	12:00		11.948	30.895		49.701	40.947
1/15/10	16:00		11.997	30.837		49.719	40.897
1/15/10	20:00		12.010	30.812		49.878	40.876
1/16/10	0:00		12.026	30.796		49.903	40.860
1/16/10	4:00		12.040	30.777		49.880	40.838
1/16/10	8:00		12.073	30.738		49.830	40.793
1/16/10	12:00		12.061	30.758		49.852	40.807
1/16/10	16:00		12.183	30.634		49.814	40.702
1/16/10	20:00		12.177	30.641		49.818	40.671
1/17/10	0:00		12.236	30.590		49.826	40.614
1/17/10	4:00		12.250	30.576		49.826	40.585
1/17/10	8:00		12.268	30.560		49.826	40.549
1/17/10	12:00		12.230	30.589		49.822	40.567
1/17/10	16:00		12.266	30.553		49.832	40.527
1/17/10	20:00		12.211	30.601		49.818	40.562
1/18/10	0:00		12.156	30.641		49.814	40.611
1/18/10	4:00		12.158	30.631		49.816	40.696
1/18/10	8:00		12.142	30.638		49.812	40.713
1/18/10	12:00		12.103	30.666		49.820	40.702
1/18/10	16:00		12.146	30.613		49.703	40.734
1/18/10	20:00		12.103	30.641		49.606	40.798
1/19/10	0:00		12.075	30.649		49.616	40.816
1/19/10	4:00		12.091	30.617		49.620	40.822
1/19/10	8:00		12.095	30.596		49.624	40.818
1/19/10	12:00		12.079	30.592		49.602	40.818
1/19/10	16:00		12.177	30.490		49.453	40.831
1/19/10	20:00		12.175	30.474		49.423	40.831
1/20/10	0:00		12.213	30.416		49.381	40.838
1/20/10	4:00		12.268	30.324		49.393	40.849
1/20/10	8:00		12.213	30.328		49.389	40.838
1/20/10	12:00		12.087	30.400		49.379	40.831
1/20/10	16:00		12.034	30.370		49.290	40.882
1/20/10	20:00		11.918	30.409		49.340	40.847

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
1/21/10	0:00		11.893	30.356		49.318	40.836
1/21/10	4:00		11.861	30.319		49.304	40.827
1/21/10	8:00		11.765	30.335		49.292	40.800
1/21/10	12:00		11.681	30.343		49.292	40.811
1/21/10	16:00		11.647	30.310		49.350	40.854
1/21/10	20:00		11.496	30.379		49.439	40.371
1/22/10	0:00		11.402	30.389		49.479	40.378
1/22/10	4:00		11.410	30.312		49.463	40.396
1/22/10	8:00		11.371	30.284		49.435	40.391
1/22/10	12:00		11.345	30.257		49.443	40.403
1/22/10	16:00		11.457	30.097		49.298	40.167
1/22/10	20:00		11.463	30.042		49.233	40.085
1/23/10	0:00		11.435	30.028		49.229	40.060
1/23/10	4:00		11.451	29.956		49.233	40.116
1/23/10	8:00		11.443	29.891		49.237	40.176
1/23/10	12:00		11.459	29.845		49.243	40.243
1/23/10	16:00		11.522	29.774		48.933	39.769
1/23/10	20:00		11.384	29.845		48.979	39.801
1/24/10	0:00		11.312	29.846		48.981	39.794
1/24/10	4:00		11.241	29.853		48.985	39.783
1/24/10	8:00		11.084	29.929		49.058	39.838
1/24/10	12:00		10.988	29.952		49.102	39.867
1/24/10	16:00		11.047	29.885		49.054	39.805
1/24/10	20:00		10.966	29.905		49.078	39.810
1/25/10	0:00		10.919	29.875		49.064	39.778
1/25/10	4:00		10.874	29.859		49.050	39.743
1/25/10	8:00		10.788	29.889		49.074	39.750
1/25/10	12:00		10.652	29.993		49.181	39.830
1/25/10	16:00		10.621	30.012		49.211	39.841
1/25/10	20:00		10.523	30.079		49.292	39.901
1/26/10	0:00		10.705	30.144		49.362	39.952
1/26/10	4:00		10.593	30.199		49.429	39.996
1/26/10	8:00		10.489	30.263		49.512	40.056
1/26/10	12:00		10.401	30.340		49.614	40.134
1/26/10	16:00		10.825	30.247		49.560	40.069
1/26/10	20:00		10.770	30.250		49.568	40.060
1/27/10	0:00		10.735	30.227		49.560	40.036
1/27/10	4:00		10.713	30.206		49.546	40.007
1/27/10	8:00		10.746	30.151		49.506	39.956
1/27/10	12:00		10.703	30.187		49.522	39.963
1/27/10	16:00		10.788	30.176		49.497	39.929
1/27/10	20:00		10.619	30.305		49.618	40.030
1/28/10	0:00		10.646	30.375		49.709	40.103
1/28/10	4:00		10.564	30.416		49.760	40.140
1/28/10	8:00		10.480	30.448		49.800	40.167
1/28/10	12:00		10.432	30.488		49.866	40.218
1/28/10	16:00		10.554	30.352		49.753	40.103
1/28/10	20:00		10.535	30.361		49.768	40.103

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
1/29/10	0:00		10.533	30.333		49.737	40.069
1/29/10	4:00		10.552	30.287		49.689	40.016
1/29/10	8:00		10.611	30.217		49.616	39.938
1/29/10	12:00		10.629	30.204		49.606	39.918
1/29/10	16:00		10.756	30.083		49.473	39.790
1/29/10	20:00		10.741	30.088		49.455	39.769
1/30/10	0:00		10.741	30.071		49.427	39.739
1/30/10	4:00		10.739	30.060		49.393	39.701
1/30/10	8:00		10.725	30.062		49.379	39.681
1/30/10	12:00		10.684	30.106		49.407	39.707
1/30/10	16:00		10.823	30.042		49.332	39.638
1/30/10	20:00		10.774	30.060		49.328	39.628
1/31/10	0:00		10.745	30.067		49.328	39.627
1/31/10	4:00		10.723	30.081		49.334	39.630
1/31/10	8:00		10.697	30.090		49.330	39.625
1/31/10	12:00		10.680	30.129		49.354	39.641
1/31/10	16:00		10.837	30.062		49.290	39.583
1/31/10	20:00		10.809	30.062		49.280	39.565
2/1/10	0:00		10.807	30.044		49.254	39.541
2/1/10	4:00		10.829	30.018		49.211	39.501
2/1/10	8:00		10.872	29.974		49.151	39.441
2/1/10	12:00		10.909	29.951		49.110	39.403
2/1/10	16:00		10.972	29.898		49.040	39.334
2/1/10	20:00		10.947	29.931		49.042	39.337
2/2/10	0:00		10.933	29.951		49.048	39.345
2/2/10	4:00		10.917	29.972		49.054	39.352
2/2/10	8:00		10.851	30.035		49.092	39.390
2/2/10	12:00		10.786	30.101		49.157	39.447
2/2/10	16:00		10.896	30.064		49.118	39.414
2/2/10	20:00		10.837	30.099		49.143	39.434
2/3/10	0:00		10.782	30.129		49.171	39.461
2/3/10	4:00		10.884	30.104		49.153	39.445
2/3/10	8:00		11.102	30.148		49.175	39.463
2/3/10	12:00		11.112	30.123		49.169	39.454
2/3/10	16:00		11.170	30.090		49.125	39.416
2/3/10	20:00		11.147	30.109		49.122	39.414
2/4/10	0:00		11.170	30.083		49.106	39.399
2/4/10	4:00		11.159	30.086		49.100	39.390
2/4/10	8:00		11.212	30.030		49.054	39.343
2/4/10	12:00		11.251	30.016		49.058	39.317
2/4/10	16:00		11.320	29.926		48.921	39.228
2/4/10	20:00		11.310	29.926		48.891	39.199
2/5/10	0:00		11.318	29.903		48.846	39.163
2/5/10	4:00		11.353	29.866		48.798	39.115
2/5/10	8:00		11.380	29.831		48.741	39.066
2/5/10	12:00		11.361	29.852		48.729	39.061
2/5/10	16:00		11.363	29.843		48.727	39.037
2/5/10	20:00		11.259	29.947		48.711	39.114

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
2/6/10	0:00		11.180	30.021		48.701	39.183
2/6/10	4:00		11.143	30.055		48.697	39.217
2/6/10	8:00		11.078	30.116		48.941	39.265
2/6/10	12:00		11.041	30.157		48.973	39.301
2/6/10	16:00		11.076	30.123		48.977	39.285
2/6/10	20:00		11.082	30.123		48.975	39.283
2/7/10	0:00		11.092	30.110		48.973	39.274
2/7/10	4:00		11.114	30.087		48.933	39.248
2/7/10	8:00		11.125	30.069		48.903	39.226
2/7/10	12:00		11.141	30.053		48.893	39.208
2/7/10	16:00		11.249	29.975		48.901	39.137
2/7/10	20:00		11.221	29.986		48.895	39.125
2/8/10	0:00		11.220	29.974		48.893	39.114
2/8/10	4:00		11.220	29.965		48.889	39.095
2/8/10	8:00		11.192	29.983		48.885	39.101
2/8/10	12:00		11.102	30.062		48.873	39.152
2/8/10	16:00		11.076	30.094		48.871	39.192
2/8/10	20:00		10.978	30.147		48.871	39.236
2/9/10	0:00		10.959	30.110		48.885	39.217
2/9/10	4:00		10.992	30.053		48.854	39.168
2/9/10	8:00		10.965	30.069		48.814	39.163
2/9/10	12:00		10.956	30.110		48.838	39.190
2/9/10	16:00		10.925	30.157		48.866	39.228
2/9/10	20:00		10.855	30.214		48.909	39.286
2/10/10	0:00		11.179	30.261		48.969	39.334
2/10/10	4:00		11.184	30.258		49.000	39.339
2/10/10	8:00		11.190	30.265		49.008	39.352
2/10/10	12:00		11.202	30.284		49.026	39.366
2/10/10	16:00		11.306	30.194		49.002	39.305
2/10/10	20:00		11.285	30.178		48.935	39.283
2/11/10	0:00		11.283	30.155		48.915	39.261
2/11/10	4:00		11.336	30.097		48.871	39.208
2/11/10	8:00		11.347	30.078		48.826	39.179
2/11/10	12:00		11.363	30.067		48.804	39.159
2/11/10	16:00		11.498	29.991		48.798	39.090
2/11/10	20:00		11.453	30.023		48.774	39.097
2/12/10	0:00		11.438	30.021		48.725	39.095
2/12/10	4:00		11.434	30.014		48.709	39.085
2/12/10	8:00		11.387	30.035		48.689	39.090
2/12/10	12:00		11.349	30.088		48.721	39.134
2/12/10	16:00		11.467	30.043		48.796	39.099
2/12/10	20:00		11.445	30.060		48.741	39.110
2/13/10	0:00		11.422	30.064		48.719	39.115
2/13/10	4:00		11.447	30.020		48.721	39.075
2/13/10	8:00		11.438	30.000		48.709	39.048
2/13/10	12:00		11.477	29.986		48.770	39.035
2/13/10	16:00		11.575	29.946		48.840	38.988
2/13/10	20:00		11.516	29.990		48.768	39.012

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
2/14/10	0:00		11.463	30.028		48.737	39.046
2/14/10	4:00		11.336	30.118		48.685	39.117
2/14/10	8:00		11.263	30.147		48.643	39.157
2/14/10	12:00		11.298	30.108		48.725	39.134
2/14/10	16:00		11.294	30.118		48.739	39.135
2/14/10	20:00		11.190	30.185		48.673	39.196
2/15/10	0:00		11.175	30.159		48.663	39.186
2/15/10	4:00		11.226	30.101		48.687	39.137
2/15/10	8:00		11.190	30.134		48.671	39.150
2/15/10	12:00		11.141	30.198		48.746	39.210
2/15/10	16:00		11.147	30.189		48.780	39.210
2/15/10	20:00		11.120	30.207		48.733	39.230
2/16/10	0:00		11.110	30.207		48.699	39.236
2/16/10	4:00		11.078	30.226		48.693	39.257
2/16/10	8:00		11.033	30.261		48.701	39.286
2/16/10	12:00		11.010	30.309		48.782	39.332
2/16/10	16:00		11.226	30.261		48.881	39.305
2/16/10	20:00		11.210	30.254		48.808	39.301
2/17/10	0:00		11.173	30.260		48.754	39.310
2/17/10	4:00		11.155	30.247		48.723	39.305
2/17/10	8:00		11.128	30.260		48.693	39.312
2/17/10	12:00		11.131	30.279		48.844	39.326
2/17/10	16:00		11.286	30.231		49.004	39.297
2/17/10	20:00		11.237	30.253		48.850	39.306
2/18/10	0:00		11.212	30.237		48.800	39.305
2/18/10	4:00		11.188	30.246		48.804	39.314
2/18/10	8:00		11.167	30.247		48.782	39.316
2/18/10	12:00		11.202	30.249		48.919	39.317
2/18/10	16:00		11.424	30.154		48.780	39.241
2/18/10	20:00		11.404	30.164		48.641	39.234
2/19/10	0:00		11.359	30.182		48.594	39.250
2/19/10	4:00		11.369	30.164		48.588	39.239
2/19/10	8:00		11.394	30.124		48.596	39.201
2/19/10	12:00		11.379	30.126		48.602	39.196
2/19/10	16:00		11.406	30.076		48.619	39.146
2/19/10	20:00		11.347	30.129		48.608	39.181
2/20/10	0:00		11.306	30.164		48.608	39.221
2/20/10	4:00		11.275	30.201		48.608	39.254
2/20/10	8:00		11.224	30.253		48.598	39.297
2/20/10	12:00		11.228	30.249		48.619	39.306
2/20/10	16:00		11.257	30.207		48.637	39.277
2/20/10	20:00		11.259	30.217		48.637	39.283
2/21/10	0:00		11.263	30.205		48.635	39.274
2/21/10	4:00		11.318	30.140		48.653	39.225
2/21/10	8:00		11.336	30.115		48.653	39.192
2/21/10	12:00		11.347	30.090		48.661	39.172
2/21/10	16:00		11.371	30.062		48.669	39.134
2/21/10	20:00		11.294	30.134		48.655	39.186

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
2/22/10	0:00		11.257	30.170		48.649	39.217
2/22/10	4:00		11.249	30.182		48.651	39.236
2/22/10	8:00		11.237	30.187		48.651	39.241
2/22/10	12:00		11.194	30.231		48.659	39.283
2/22/10	16:00		11.243	30.182		48.687	39.254
2/22/10	20:00		11.222	30.209		48.675	39.268
2/23/10	0:00		11.222	30.212		48.675	39.279
2/23/10	4:00		11.230	30.198		48.673	39.268
2/23/10	8:00		11.239	30.180		48.675	39.252
2/23/10	12:00		11.155	30.263		48.687	39.317
2/23/10	16:00		11.151	30.272		48.711	39.336
2/23/10	20:00		11.102	30.323		48.697	39.385
2/24/10	0:00		11.069	30.360		48.687	39.428
2/24/10	4:00		11.063	30.360		48.685	39.441
2/24/10	8:00		11.029	30.385		48.675	39.465
2/24/10	12:00		11.057	30.408		48.705	39.496
2/24/10	16:00		11.220	30.341		48.757	39.452
2/24/10	20:00		11.246	30.318		48.751	39.430
2/25/10	0:00		11.238	30.323		48.737	39.439
2/25/10	4:00		11.261	30.295		48.735	39.417
2/25/10	8:00		11.255	30.293		48.735	39.410
2/25/10	12:00		11.253	30.299		48.767	39.419
2/25/10	16:00		11.308	30.253		48.812	39.376
2/25/10	20:00		11.299	30.277		48.805	39.388
2/26/10	0:00		11.261	30.318		48.791	39.428
2/26/10	4:00		11.263	30.313		48.793	39.432
2/26/10	8:00		11.265	30.309		48.796	39.432
2/26/10	12:00		11.242	30.343		48.822	39.461
2/26/10	16:00		11.308	30.283		48.864	39.414
2/26/10	20:00		11.322	30.274		48.876	39.405
2/27/10	0:00		11.322	30.281		48.870	39.417
2/27/10	4:00		11.316	30.288		48.854	39.417
2/27/10	8:00		11.275	30.322		48.846	39.443
2/27/10	12:00		11.257	30.339		48.874	39.472
2/27/10	16:00		11.277	30.330		48.892	39.467
2/27/10	20:00		11.289	30.329		48.896	39.461
2/28/10	0:00		11.293	30.329		48.866	39.468
2/28/10	4:00		11.287	30.318		48.852	39.465
2/28/10	8:00		11.236	30.357		48.834	39.494
2/28/10	12:00		11.247	30.364		48.892	39.507
2/28/10	16:00		11.291	30.329		48.969	39.479
2/28/10	20:00		11.283	30.343		48.913	39.479
3/1/10	0:00		11.230	30.397		48.886	39.476
3/1/10	4:00		11.202	30.422		48.876	39.474
3/1/10	8:00		11.171	30.434		48.866	39.470
3/1/10	12:00		11.134	30.482		48.981	39.463
3/1/10	16:00		11.214	30.440		49.084	39.477
3/1/10	20:00		11.212	30.456		48.979	39.470

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
3/2/10	0:00		11.220	30.443		48.936	39.474
3/2/10	4:00		11.228	30.415		48.913	39.483
3/2/10	8:00		11.208	30.408		48.882	39.465
3/2/10	12:00		11.212	30.397		49.040	39.479
3/2/10	16:00		11.548	30.330		49.205	39.517
3/2/10	20:00		11.516	30.343		49.057	39.494
3/3/10	0:00		11.469	30.339		48.955	39.488
3/3/10	4:00		11.424	30.352		48.929	39.461
3/3/10	8:00		11.363	30.369		48.912	39.432
3/3/10	12:00		11.318	30.419		49.078	39.581
3/3/10	16:00		11.475	30.374		48.965	39.698
3/3/10	20:00		11.450	30.369		48.830	39.578
3/4/10	0:00		11.359	30.385		48.697	39.539
3/4/10	4:00		11.332	30.364		48.673	39.525
3/4/10	8:00		11.259	30.389		48.659	39.497
3/4/10	12:00		11.240	30.403		48.862	39.614
3/4/10	16:00		11.450	30.327		49.140	39.730
3/4/10	20:00		11.436	30.313		49.003	39.630
3/5/10	0:00		11.318	30.354		48.848	39.579
3/5/10	4:00		11.257	30.344		48.790	39.563
3/5/10	8:00		11.183	30.362		48.755	39.532
3/5/10	12:00		11.193	30.339		48.936	39.634
3/5/10	16:00		11.381	30.260		49.209	39.741
3/5/10	20:00		11.354	30.249		48.795	39.658
3/6/10	0:00		11.234	30.286		48.719	39.598
3/6/10	4:00		11.204	30.267		48.751	39.588
3/6/10	8:00		11.151	30.264		48.729	39.574
3/6/10	12:00		11.144	30.263		48.844	39.647
3/6/10	16:00		11.261	30.179		49.046	39.696
3/6/10	20:00		11.255	30.145		48.979	39.670
3/7/10	0:00		11.191	30.158		48.908	39.636
3/7/10	4:00		11.110	30.177		48.838	39.596
3/7/10	8:00		11.014	30.203		48.777	39.559
3/7/10	12:00		10.985	30.209		48.862	39.596
3/7/10	16:00		11.061	30.151		48.985	39.645
3/7/10	20:00		11.034	30.135		48.931	39.594
3/8/10	0:00		10.973	30.110		48.817	39.536
3/8/10	4:00		10.967	30.059		48.805	39.528
3/8/10	8:00		10.955	30.027		48.792	39.510
3/8/10	12:00		11.038	29.960		48.971	39.601
3/8/10	16:00		11.267	29.801		48.594	39.443
3/8/10	20:00		11.244	29.807		48.511	39.305
3/9/10	0:00		11.273	29.726		48.471	39.305
3/9/10	4:00		11.293	29.638		48.457	39.308
3/9/10	8:00		11.275	29.599		48.449	39.299
3/9/10	12:00		11.289	29.553		48.493	39.319
3/9/10	16:00		11.354	29.463		48.572	39.348
3/9/10	20:00		11.250	29.472		48.538	39.296

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
3/10/10	0:00		11.136	29.468		48.497	39.254
3/10/10	4:00		11.006	29.489		48.443	39.212
3/10/10	8:00		10.892	29.519		48.415	39.174
3/10/10	12:00		10.863	29.518		48.473	39.217
3/10/10	16:00		10.845	29.442		48.221	38.992
3/10/10	20:00		10.826	29.396		48.171	38.961
3/11/10	0:00		10.794	29.333		48.126	38.935
3/11/10	4:00		10.751	29.294		48.094	38.897
3/11/10	8:00		10.588	29.348		48.017	38.817
3/11/10	12:00		10.488	29.389		48.028	38.802
3/11/10	16:00		10.433	29.384		48.056	38.782
3/11/10	20:00		10.327	29.410		48.017	38.713
3/12/10	0:00		10.264	29.391		48.009	38.672
3/12/10	4:00		10.257	29.313		48.001	38.642
3/12/10	8:00		10.182	29.311		47.973	38.593
3/12/10	12:00		10.101	29.352		47.989	38.573
3/12/10	16:00		10.019	29.389		48.005	38.541
3/12/10	20:00		9.915	29.433		48.102	38.484
3/13/10	0:00		9.837	29.444		48.136	38.437
3/13/10	4:00		9.835	29.371		48.122	38.410
3/13/10	8:00		9.762	29.370		48.100	38.359
3/13/10	12:00		9.758	29.350		48.179	38.375
3/13/10	16:00		9.823	29.288		48.284	38.393
3/13/10	20:00		9.734	29.338		48.203	38.310
3/14/10	0:00		9.636	29.380		48.146	38.244
3/14/10	4:00		9.572	29.385		48.120	38.211
3/14/10	8:00		9.464	29.442		48.154	38.155
3/14/10	12:00		9.385	29.511		48.286	38.126
3/14/10	16:00		9.391	29.500		48.334	38.302
3/14/10	20:00		9.326	29.542		48.324	38.348
3/15/10	0:00		9.222	29.608		48.392	38.377
3/15/10	4:00		9.185	29.606		48.425	38.379
3/15/10	8:00		9.118	29.632		48.451	38.395
3/15/10	12:00		9.375	29.669		48.523	38.441
3/15/10	16:00		9.448	29.623		48.638	38.461
3/15/10	20:00		9.415	29.625		48.600	38.402
3/16/10	0:00		9.348	29.657		48.539	38.399
3/16/10	4:00		9.324	29.623		48.501	38.373
3/16/10	8:00		9.285	29.613		48.449	38.348
3/16/10	12:00		9.291	29.590		48.481	38.355
3/16/10	16:00		9.367	29.505		48.527	38.364
3/16/10	20:00		9.342	29.470		48.438	38.290
3/17/10	0:00		9.322	29.454		48.403	38.251
3/17/10	4:00		9.336	29.403		48.386	38.228
3/17/10	8:00		9.289	29.415		48.362	38.186
3/17/10	12:00		9.307	29.408		48.417	38.208
3/17/10	16:00		9.477	29.350		48.657	38.306
3/17/10	20:00		9.511	29.318		48.586	38.230

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
3/18/10	0:00		9.456	29.296		48.427	38.155
3/18/10	4:00		9.428	29.266		48.322	38.088
3/18/10	8:00		9.389	29.250		48.243	38.027
3/18/10	12:00		9.456	29.204		48.513	38.168
3/18/10	16:00		9.772	29.075		48.217	38.155
3/18/10	20:00		9.815	29.040		48.086	38.053
3/19/10	0:00		9.750	29.047		47.905	37.971
3/19/10	4:00		9.707	29.045		47.806	37.913
3/19/10	8:00		9.656	29.063		47.739	37.857
3/19/10	12:00		9.658	29.096		47.903	37.953
3/19/10	16:00		9.595	29.151		47.808	37.858
3/19/10	20:00		9.450	29.229		47.770	37.744
3/20/10	0:00		9.299	29.310		47.826	37.673
3/20/10	4:00		9.273	29.299		47.820	37.693
3/20/10	8:00		9.204	29.350		47.804	37.702
3/20/10	12:00		9.179	29.361		47.796	37.696
3/20/10	16:00		9.185	29.333		47.796	37.707
3/20/10	20:00		9.173	29.322		47.790	37.687
3/21/10	0:00		9.173	29.310		47.784	37.678
3/21/10	4:00		9.212	29.246		47.782	37.671
3/21/10	8:00		9.206	29.230		47.776	37.656
3/21/10	12:00		9.197	29.225		47.780	37.638
3/21/10	16:00		9.316	29.165		47.989	37.740
3/21/10	20:00		9.297	29.153		47.919	37.649
3/22/10	0:00		9.201	29.154		47.782	37.578
3/22/10	4:00		9.161	29.107		47.729	37.555
3/22/10	8:00		9.089	29.098		47.677	37.505
3/22/10	12:00		9.151	29.042		47.965	37.671
3/22/10	16:00		9.393	28.906		47.729	37.711
3/22/10	20:00		9.405	28.867		47.612	37.616
3/23/10	0:00		9.314	28.864		47.447	37.536
3/23/10	4:00		9.266	28.837		47.368	37.482
3/23/10	8:00		9.185	28.851		47.392	37.424
3/23/10	12:00		9.191	28.872		47.677	37.573
3/23/10	16:00		9.436	28.777		47.558	37.522
3/23/10	20:00		9.367	28.825		47.368	37.416
3/24/10	0:00		9.273	28.874		47.348	37.344
3/24/10	4:00		9.275	28.832		47.336	37.304
3/24/10	8:00		9.203	28.871		47.360	37.249
3/24/10	12:00		9.173	28.855		47.356	37.187
3/24/10	16:00		9.134	28.795		47.342	37.304
3/24/10	20:00		9.044	28.805		47.271	37.413
3/25/10	0:00		8.983	28.768		47.219	37.349
3/25/10	4:00		8.943	28.705		47.221	37.302
3/25/10	8:00		8.826	28.705		47.239	37.189
3/25/10	12:00		8.796	28.693		47.404	37.256
3/25/10	16:00		8.926	28.652		47.628	37.311
3/25/10	20:00		8.879	28.641		47.481	37.180

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
3/26/10	0:00		8.751	28.633		47.290	37.058
3/26/10	4:00		8.677	28.596		47.189	36.971
3/26/10	8:00		8.620	28.557		47.138	36.903
3/26/10	12:00		8.677	28.509		47.399	37.016
3/26/10	16:00		8.995	28.299		47.205	36.969
3/26/10	20:00		9.008	28.232		47.054	36.863
3/27/10	0:00		8.912	28.254		46.887	36.756
3/27/10	4:00		8.922	28.192		46.842	36.714
3/27/10	8:00		8.934	28.142		46.808	36.678
3/27/10	12:00		8.873	28.123		46.756	36.601
3/27/10	16:00		8.838	28.111		46.760	36.589
3/27/10	20:00		8.702	28.192		46.717	36.525
3/28/10	0:00		8.588	28.238		46.677	36.605
3/28/10	4:00		8.502	28.241		46.796	36.587
3/28/10	8:00		8.384	28.308		46.862	36.567
3/28/10	12:00		8.365	28.324		47.010	36.590
3/28/10	16:00		8.543	28.262		47.264	36.698
3/28/10	20:00		8.524	28.239		47.136	36.569
3/29/10	0:00		8.422	28.225		46.955	36.456
3/29/10	4:00		8.357	28.194		46.844	36.374
3/29/10	8:00		8.300	28.164		46.788	36.307
3/29/10	12:00		8.394	28.111		47.088	36.448
3/29/10	16:00		8.683	27.952		46.929	36.361
3/29/10	20:00		8.730	27.883		46.800	36.252
3/30/10	0:00		8.683	27.866		46.635	36.174
3/30/10	4:00		8.685	27.813		46.556	36.125
3/30/10	8:00		8.669	27.793		46.515	36.079
3/30/10	12:00		8.789	27.740		46.761	36.077
3/30/10	16:00		8.957	27.626		46.443	35.941
3/30/10	20:00		8.579	27.571		46.356	35.866
3/31/10	0:00		8.586	27.580		46.221	35.804
3/31/10	4:00		8.588	27.529		46.161	35.775
3/31/10	8:00		8.602	27.594		46.092	35.706
3/31/10	12:00		8.624	27.688		46.338	35.806
3/31/10	16:00		8.641	27.668		46.350	35.795
3/31/10	20:00		8.657	27.688		46.352	35.553
4/1/10	0:00		8.677	27.714		46.361	35.557
4/1/10	4:00		8.690	27.675		46.316	35.511
4/1/10	8:00		8.700	27.682		46.302	35.493
4/1/10	12:00		8.720	27.689		46.300	35.488
4/1/10	16:00		8.734	27.598		46.203	35.400
4/1/10	20:00		8.740	27.612		46.179	35.373
4/2/10	0:00		8.755	27.589		46.151	35.344
4/2/10	4:00		8.769	27.613		46.155	35.346
4/2/10	8:00		8.783	27.622		46.130	35.324
4/2/10	12:00		8.808	27.684		46.120	35.582
4/2/10	16:00		8.743	27.703		46.181	35.357
4/2/10	20:00		8.736	27.774		46.232	35.397

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
4/3/10	0:00		8.706	27.896		46.332	35.484
4/3/10	4:00		8.716	27.910		46.355	35.502
4/3/10	8:00		8.641	27.973		46.407	35.542
4/3/10	12:00		8.683	27.948		46.407	35.531
4/3/10	16:00		8.800	27.857		46.340	35.462
4/3/10	20:00		8.794	27.825		46.306	35.420
4/4/10	0:00		8.730	27.816		46.292	35.400
4/4/10	4:00		8.738	27.751		46.234	35.339
4/4/10	8:00		8.647	27.809		46.264	35.359
4/4/10	12:00		8.714	27.770		46.240	35.333
4/4/10	16:00		8.753	27.700		46.169	35.262
4/4/10	20:00		8.675	27.811		46.242	35.319
4/5/10	0:00		8.649	27.908		46.330	35.393
4/5/10	4:00		8.632	27.904		46.328	35.386
4/5/10	8:00		8.673	27.866		46.290	35.344
4/5/10	12:00		8.806	27.735		46.276	35.291
4/5/10	16:00		8.875	27.550		46.022	35.080
4/5/10	20:00		8.834	27.513		45.951	35.015
4/6/10	0:00		8.836	27.502		45.927	34.991
4/6/10	4:00		8.869	27.384		45.804	34.882
4/6/10	8:00		8.822	27.370		45.758	34.836
4/6/10	12:00		8.869	27.347		45.719	34.802
4/6/10	16:00		8.853	27.308		45.661	34.751
4/6/10	20:00		8.757	27.428		45.723	34.811
4/7/10	0:00		8.653	27.525		45.804	34.882
4/7/10	4:00		8.663	27.538		45.794	34.873
4/7/10	8:00		8.608	27.612		45.841	34.909
4/7/10	12:00		8.577	27.725		45.929	34.989
4/7/10	16:00		8.836	27.820		46.000	35.053
4/7/10	20:00		8.751	27.915		46.082	35.124
4/8/10	0:00		8.785	27.973		46.137	35.166
4/8/10	4:00		8.814	27.968		46.133	35.160
4/8/10	8:00		8.801	28.005		46.159	35.178
4/8/10	12:00		8.885	28.014		46.171	35.189
4/8/10	16:00		9.071	27.931		45.611	35.120
4/8/10	20:00		9.101	27.917		45.606	35.098
4/9/10	0:00		9.028	27.938		45.625	35.104
4/9/10	4:00		9.001	27.938		45.621	35.093
4/9/10	8:00		8.960	27.977		45.649	35.111
4/9/10	12:00		8.985			45.657	35.122
4/9/10	16:00		9.160	27.926		45.592	35.044
4/9/10	20:00		9.203	27.927		45.586	35.031
4/10/10	0:00		9.130	28.001		45.641	35.073
4/10/10	4:00		9.109	28.030		45.661	35.087
4/10/10	8:00		9.093	28.070		45.693	35.113
4/10/10	12:00		9.189	28.058		45.687	35.109
4/10/10	16:00		9.352	28.010		45.641	35.065
4/10/10	20:00		9.358	28.035		45.645	35.071

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
4/11/10	0:00		9.268	28.116		45.707	35.126
4/11/10	4:00		9.250	28.137		45.727	35.140
4/11/10	8:00		9.207	28.199		45.774	35.182
4/11/10	12:00		9.277	28.216		45.792	35.202
4/11/10	16:00		9.448	28.149		45.737	35.149
4/11/10	20:00		9.482	28.141		45.719	35.133
4/12/10	0:00		9.440	28.157		45.719	35.138
4/12/10	4:00		9.431	28.153		45.715	35.135
4/12/10	8:00		9.413	28.158		45.711	35.131
4/12/10	12:00		9.478	28.149		45.705	35.126
4/12/10	16:00		9.621	28.082		45.637	35.065
4/12/10	20:00		9.635	28.070		45.608	35.042
4/13/10	0:00		9.566	28.095		45.616	35.055
4/13/10	4:00		9.531	28.082		45.594	35.038
4/13/10	8:00		9.454	28.144		45.635	35.075
4/13/10	12:00		9.519	28.135		45.629	35.076
4/13/10	16:00		9.649	28.088		45.580	35.033
4/13/10	20:00		9.672	28.070		45.544	35.005
4/14/10	0:00		9.590	28.107		45.562	35.020
4/14/10	4:00		9.507	28.179		45.619	35.075
4/14/10	8:00		9.454	28.257		45.677	35.131
4/14/10	12:00		9.525	28.266		45.693	35.149
4/14/10	16:00		9.698	28.197		45.631	35.096
4/14/10	20:00		9.715	28.188		45.606	35.078
4/15/10	0:00		9.653	28.225		45.635	35.104
4/15/10	4:00		9.637	28.220		45.621	35.095
4/15/10	8:00		9.588	28.266		45.651	35.124
4/15/10	12:00		9.645	28.278		45.661	35.138
4/15/10	16:00		9.798	28.197		45.588	35.078
4/15/10	20:00		9.741	28.248		45.604	35.097
4/16/10	0:00		9.686	28.298		45.661	35.138
4/16/10	4:00		9.639	28.305		45.651	35.136
4/16/10	8:00		9.541	28.384		45.619	35.364
4/16/10	12:00		9.545	28.412		45.733	35.206
4/16/10	16:00		9.605	28.368		45.701	35.178
4/16/10	20:00		9.605	28.320		45.663	35.144
4/17/10	0:00		9.509	28.329		45.675	35.156
4/17/10	4:00		9.472	28.298		45.655	35.142
4/17/10	8:00		9.388	28.329		45.677	35.167
4/17/10	12:00		9.442	28.315		45.683	35.176
4/17/10	16:00			28.211		45.604	35.107
4/17/10	20:00			28.183		45.564	35.071
4/18/10	0:00			28.204		45.580	35.089
4/18/10	4:00			28.199		45.568	35.084
4/18/10	8:00			28.248		45.606	35.115
4/18/10	12:00			28.234		45.610	35.120
4/18/10	16:00			28.149		45.536	35.060
4/18/10	20:00			28.135		45.510	35.035

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
4/19/10	0:00			28.151		45.516	35.042
4/19/10	4:00			28.139		45.504	35.033
4/19/10	8:00			28.172		45.528	35.053
4/19/10	12:00			28.142		45.508	35.036
4/19/10	16:00			28.063		45.435	34.974
4/19/10	20:00			28.040		45.397	34.942
4/20/10	0:00			28.058		45.401	34.945
4/20/10	4:00			28.035		45.377	34.927
4/20/10	8:00			28.035		45.363	34.920
4/20/10	12:00			28.023		45.346	34.907
4/20/10	16:00			27.956		45.282	34.854
4/20/10	20:00			27.940		45.252	34.829
4/21/10	0:00			27.927		45.232	34.811
4/21/10	4:00			27.917		45.209	34.794
4/21/10	8:00			27.927		45.205	34.793
4/21/10	12:00			27.931		45.209	34.794
4/21/10	16:00			27.864		45.139	34.738
4/21/10	20:00			27.860		45.117	34.722
4/22/10	0:00			27.881		45.123	34.731
4/22/10	4:00			27.866		45.098	34.712
4/22/10	8:00			27.871		45.094	34.711
4/22/10	12:00			27.915		45.109	34.731
4/22/10	16:00			27.832		45.125	34.802
4/22/10	20:00	18.594	9.543	27.783		44.907	34.682
4/23/10	0:00	18.586	9.540	27.765		44.910	34.585
4/23/10	4:00	18.539	9.533	27.665		44.913	34.596
4/23/10	8:00	18.508	9.469	27.619		44.887	34.765
4/23/10	12:00	18.485	9.435	27.578		44.670	34.434
4/23/10	16:00	18.456	9.462	27.488		44.607	34.383
4/23/10	20:00	18.430	9.386	27.432		44.571	34.343
4/24/10	0:00	18.406	9.224	27.465		44.613	34.370
4/24/10	4:00	18.376	9.158	27.403		44.577	34.327
4/24/10	8:00	18.351	9.070	27.388		44.571	34.305
4/24/10	12:00	18.324	9.067	27.351		44.557	34.276
4/24/10	16:00	18.295	9.089	27.280		44.510	34.218
4/24/10	20:00	18.248	8.984	27.264		44.484	34.183
4/25/10	0:00	18.225	8.886	27.276		44.468	34.259
4/25/10	4:00	18.202	8.802	27.266		44.458	34.340
4/25/10	8:00	18.190	8.707	27.328		44.585	34.343
4/25/10	12:00	18.180	8.641	27.359		44.631	34.243
4/25/10	16:00	18.167	8.609	27.366		44.658	34.249
4/25/10	20:00	18.161	8.547	27.402		44.702	34.272
4/26/10	0:00	18.153	8.501	27.432		44.754	34.298
4/26/10	4:00	18.143	8.479	27.433		44.768	34.290
4/26/10	8:00	18.138	8.447	27.479		44.823	34.318
4/26/10	12:00	18.136	8.476	27.472		44.839	34.312
4/26/10	16:00	18.115	8.577	27.384		44.783	34.245
4/26/10	20:00	18.093	8.538	27.381		44.730	34.094

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
4/27/10	0:00	18.082	8.506	27.368		44.791	34.172
4/27/10	4:00	18.068	8.449	27.388		44.789	34.065
4/27/10	8:00	18.064	8.386	27.446		44.845	34.227
4/27/10	12:00	18.068	8.403	27.492		44.899	34.263
4/27/10	16:00	18.060	8.552	27.439		44.867	34.221
4/27/10	20:00	18.048	8.592	27.388		44.827	34.168
4/28/10	0:00	18.037	8.530	27.377		44.825	34.148
4/28/10	4:00	18.020	8.525	27.317		44.772	34.090
4/28/10	8:00	18.006	8.511	27.289		44.744	34.052
4/28/10	12:00	17.990	8.614	27.194		44.676	33.979
4/28/10	16:00	17.963	8.761	27.033		44.527	33.837
4/28/10	20:00	17.934	8.773	26.949		44.436	33.746
4/29/10	0:00	17.903	8.771	26.860		44.343	33.661
4/29/10	4:00	17.868	8.788	26.742		44.218	33.546
4/29/10	8:00	17.839	8.736	26.718		44.162	33.492
4/29/10	12:00	17.822	8.717	26.735		44.158	33.484
4/29/10	16:00	17.806	8.797	26.702		44.105	33.433
4/29/10	20:00	17.785	8.824	26.647		44.045	33.377
4/30/10	0:00	17.768	8.780	26.622		44.001	33.330
4/30/10	4:00	17.756	8.606	26.774		44.037	33.308
4/30/10	8:00	17.750	8.513	26.859		44.003	33.450
4/30/10	12:00	17.750	8.557	26.871		44.039	33.468
4/30/10	16:00	17.754	8.643	26.860		44.142	33.442
4/30/10	20:00	17.761	8.579	26.934		44.174	33.468
5/1/10	0:00	17.775	8.501	27.046		44.271	33.546
5/1/10	4:00	17.785	8.464	27.105		44.307	33.579
5/1/10	8:00	17.798	8.452	27.162		44.353	33.613
5/1/10	12:00	17.814	8.530	27.192		44.388	33.633
5/1/10	16:00	17.812	8.746	27.090		44.301	33.559
5/1/10	20:00	17.816	8.756	27.098		44.289	33.541
5/2/10	0:00	17.818	8.741	27.093		44.289	33.537
5/2/10	4:00	17.818	8.746	27.075		44.258	33.510
5/2/10	8:00	17.826	8.655	27.167		44.317	33.553
5/2/10	12:00	17.832	8.714	27.162		44.315	33.553
5/2/10	16:00	17.839	8.810	27.157		44.303	33.539
5/2/10	20:00	17.847	8.795	27.211		44.333	33.564
5/3/10	0:00	17.864	8.695	27.310		44.408	33.630
5/3/10	4:00	17.878	8.670	27.358		44.446	33.663
5/3/10	8:00		8.619	27.455		44.516	33.723
5/3/10	12:00		8.704	27.523		44.587	33.783
5/3/10	16:00		8.920	27.456		44.541	33.743
5/3/10	20:00		8.925	27.490		44.547	33.748
5/4/10	0:00		8.927	27.453		44.527	33.723
5/4/10	4:00		8.954	27.395		44.474	33.675
5/4/10	8:00		8.930	27.398		44.464	33.664
5/4/10	12:00		9.033	27.345		44.418	33.621
5/4/10	16:00		9.177	27.234		44.321	33.535
5/4/10	20:00		9.170	27.229		44.285	33.506

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
5/5/10	0:00		9.013	27.359		44.373	33.588
5/5/10	4:00		8.974	27.417		44.424	33.637
5/5/10	8:00		8.923	27.516		44.495	33.699
5/5/10	12:00		8.981	27.551		44.531	33.734
5/5/10	16:00		9.124	27.543		44.525	33.728
5/5/10	20:00		9.128	27.583		44.549	33.748
5/6/10	0:00		9.035	27.652		44.603	33.799
5/6/10	4:00		9.033	27.650		44.605	33.801
5/6/10	8:00		9.043	27.641		44.597	33.790
5/6/10	12:00		9.197	27.553		44.537	33.737
5/6/10	16:00		9.344	27.421		44.416	33.630
5/6/10	20:00		9.371	27.377		44.352	33.579
5/7/10	0:00		9.445	27.246		44.235	33.482
5/7/10	4:00		9.224	27.345		44.285	33.515
5/7/10	8:00		9.087	27.491		44.358	33.599
5/7/10	12:00		9.023	27.625		44.490	33.704
5/7/10	16:00		9.038	27.714		44.565	33.775
5/7/10	20:00		8.981	27.805		44.650	33.852
5/8/10	0:00		8.888	27.913		44.751	33.943
5/8/10	4:00		8.876	27.957		44.795	33.986
5/8/10	8:00		8.859	28.024		44.865	34.043
5/8/10	12:00		8.932	28.063		44.914	34.088
5/8/10	16:00		9.126	27.985		44.863	34.047
5/9/10	20:00		9.163	27.955		44.835	34.023
5/9/10	0:00		9.089	27.990		44.865	34.050
5/9/10	4:00		9.089	27.980		44.861	34.048
5/9/10	8:00		9.092	27.971		44.859	34.045
5/9/10	12:00		9.155	27.927		44.817	34.016
5/9/10	16:00		9.236	27.818		44.728	33.937
5/9/10	20:00		9.234	27.786		44.688	33.905
5/10/10	0:00		9.239	27.742		44.646	33.872
5/10/10	4:00		9.266	27.675		44.581	33.817
5/10/10	8:00		9.310	27.572		44.500	33.746
5/10/10	12:00		9.185	27.498		44.426	33.744
5/10/10	16:00		9.246	27.322		44.430	33.890
5/10/10	20:00		9.151	27.225		44.428	33.815
5/11/10	0:00		8.954	27.193		44.398	33.855
5/11/10	4:00		8.824	27.278		44.380	33.885
5/11/10	8:00		8.724	27.375		44.238	33.906
5/11/10	12:00		8.650	27.449		44.311	33.606
5/11/10	16:00		8.702	27.379		44.291	33.581
5/11/10	20:00		8.675	27.345		44.279	33.561
5/12/10	0:00		8.611	27.327		44.297	33.562
5/12/10	4:00		8.633	27.190		44.200	33.466
5/12/10	8:00		8.550	27.186		44.158	33.391
5/12/10	12:00		8.560	27.112		44.162	33.402
5/12/10	16:00		8.577	27.024		44.130	33.328
5/12/10	20:00		8.535	26.999		44.130	33.268

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
5/13/10	0:00		8.371	27.095		44.092	33.157
5/13/10	4:00		8.359	26.932		44.094	33.353
5/13/10	8:00		8.187	27.142		44.057	33.439
5/13/10	12:00		8.133	27.200		44.194	33.408
5/13/10	16:00		8.141	27.223		44.269	33.430
5/13/10	20:00		8.123	27.230		44.291	33.435
5/14/10	0:00		8.047	27.275		44.358	33.477
5/14/10	4:00		8.030	27.241		44.356	33.457
5/14/10	8:00		7.979	27.276		44.410	33.484
5/14/10	12:00		8.020	27.280		44.438	33.493
5/14/10	16:00		8.172	27.170		44.378	33.422
5/14/10	20:00		8.207	27.084		44.315	33.351
5/15/10	0:00		8.133	27.100		44.341	33.353
5/15/10	4:00		8.138	27.033		44.303	33.302
5/15/10	8:00		8.111	27.013		44.287	33.273
5/15/10	12:00		8.138	26.985		44.279	33.249
5/15/10	16:00		8.199	26.895		44.208	33.146
5/15/10	20:00		8.187	26.853		44.186	33.015
5/16/10	0:00		8.131	26.869		44.172	32.920
5/16/10	4:00		8.141	26.814		44.166	32.900
5/16/10	8:00		8.118	26.793		44.110	32.878
5/16/10	12:00		8.118	26.767		44.104	32.904
5/16/10	16:00		8.141	26.714		44.090	32.886
5/16/10	20:00		8.114	26.691		44.059	32.835
5/17/10	0:00		8.055	26.710		44.041	32.798
5/17/10	4:00		8.030	26.701		44.029	32.793
5/17/10	8:00		7.993	26.717		44.015	32.800
5/17/10	12:00		7.969	26.742		44.017	32.838
5/17/10	16:00		7.996	26.728		44.001	32.886
5/17/10	20:00		8.018	26.701		43.971	32.851
5/18/10	0:00		7.982	26.700		43.969	32.840
5/18/10	4:00		7.947	26.703		43.967	32.831
5/18/10	8:00		7.947	26.675		43.934	32.796
5/18/10	12:00		7.993	26.668		43.930	32.789
5/18/10	16:00		8.128	26.566		43.840	32.704
5/18/10	20:00		8.138	26.537		43.797	32.662
5/19/10	0:00		8.082	26.525		43.775	32.638
5/19/10	4:00		8.030	26.532		43.769	32.627
5/19/10	8:00		8.038	26.507		43.737	32.596
5/19/10	12:00		8.038	26.516		43.731	32.587
5/19/10	16:00		8.099	26.453		43.668	32.529
5/19/10	20:00		8.106	26.428		43.630	32.483
5/20/10	0:00		8.047	26.437		43.606	32.463
5/20/10	4:00		8.062	26.361		43.602	32.551
5/20/10	8:00		8.003	26.368		43.590	32.764
5/20/10	12:00		7.976	26.345		43.594	32.918
5/20/10	16:00		7.954	26.319		43.588	33.037
5/20/10	20:00		7.900	26.317		43.572	33.093

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
5/21/10	0:00		7.841	26.331		43.551	33.057
5/21/10	4:00		7.805	26.326		43.513	33.002
5/21/10	8:00		7.738	26.379		43.495	32.926
5/21/10	12:00		7.743	26.384		43.521	32.361
5/21/10	16:00		7.827	26.350		43.584	32.336
5/21/10	20:00		7.866	26.283		43.475	32.287
5/22/10	0:00		7.817	26.257		43.392	32.259
5/22/10	4:00		7.817	26.195		43.352	32.209
5/22/10	8:00		7.812	26.147		43.350	32.167
5/22/10	12:00		7.883	26.068		43.356	32.103
5/22/10	16:00		7.969	25.994		43.275	32.032
5/22/10	20:00		7.952	25.984		43.162	32.005
5/23/10	0:00		7.864	26.024		43.154	32.019
5/23/10	4:00		7.846	26.001		43.130	31.990
5/23/10	8:00		7.792	26.054		43.168	32.014
5/23/10	12:00		7.783	26.125		43.285	32.056
5/23/10	16:00		7.841	26.132		43.308	32.054
5/23/10	20:00		7.873	26.126		43.253	32.043
5/24/10	0:00		7.837	26.174		43.247	32.067
5/24/10	4:00		7.846	26.185		43.227	32.067
5/24/10	8:00		7.841	26.225		43.277	32.088
5/24/10	12:00		7.905	26.239		43.412	32.092
5/24/10	16:00		8.060	26.193		43.398	32.050
5/24/10	20:00		8.096	26.172		43.281	32.021
5/25/10	0:00		8.047	26.202		43.239	32.030
5/25/10	4:00		8.042	26.202		43.223	32.023
5/25/10	8:00		7.959	26.310		43.303	32.081
5/25/10	12:00		8.018	26.315		43.386	32.085
5/25/10	16:00		8.126	26.299		43.390	32.065
5/25/10	20:00		8.158	26.296		43.328	32.047
5/26/10	0:00		8.104	26.352		43.338	32.078
5/26/10	4:00		8.114	26.345		43.328	32.067
5/26/10	8:00		8.089	26.419		43.368	32.112
5/26/10	12:00		8.163	26.410		43.422	32.101
5/26/10	16:00		8.305	26.363		43.356	32.056
5/26/10	20:00		8.302	26.364		43.269	32.047
5/27/10	0:00		8.248	26.419		43.336	32.074
5/27/10	4:00		8.246	26.428		43.318	32.074
5/27/10	8:00		8.224	26.474		43.352	32.103
5/27/10	12:00		8.310	26.470		43.414	32.103
5/27/10	16:00		8.476	26.408		43.360	32.050
5/27/10	20:00		8.506	26.378		43.223	32.014
5/28/10	0:00		8.425	26.421		43.259	32.034
5/28/10	4:00		8.408	26.423		43.263	32.028
5/28/10	8:00		8.391	26.433		43.271	32.030
5/28/10	12:00		8.462	26.433		43.308	32.025
5/28/10	16:00		8.633	26.354		43.227	31.963
5/28/10	20:00		8.650	26.320		43.104	31.921

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
5/29/10	0:00		8.565	26.361		43.039	31.936
5/29/10	4:00		8.547	26.352		43.114	31.926
5/29/10	8:00		8.513	26.376		43.124	31.936
5/29/10	12:00		8.587	26.368		43.106	31.926
5/29/10	16:00		8.731	26.315		43.106	31.883
5/29/10	20:00		8.748	26.301		43.027	31.859
5/30/10	0:00		8.663	26.329		43.021	31.868
5/30/10	4:00		8.646	26.317		42.995	31.859
5/30/10	8:00		8.565	26.394		43.003	31.899
5/30/10	12:00		8.646	26.401		43.106	31.912
5/30/10	16:00		8.761	26.362		43.050	31.881
5/30/10	20:00		8.680	26.449		43.011	31.925
5/31/10	0:00		8.616	26.516		43.009	31.970
5/31/10	4:00		8.621	26.537		43.058	31.985
5/31/10	8:00		8.614	26.581		43.102	32.016
5/31/10	12:00		8.692	26.586		43.156	32.025
5/31/10	16:00		8.851	26.542		43.144	31.992
5/31/10	20:00		8.891	26.528		43.031	31.968
6/1/10	0:00		8.810	26.569		43.027	31.996
6/1/10	4:00		8.815	26.551		43.015	31.985
6/1/10	8:00		8.802	26.560		43.029	31.985
6/1/10	12:00		8.905	26.509		43.033	31.950
6/1/10	16:00		9.057	26.394		42.933	31.865
6/1/10	20:00		9.099	26.311		42.802	31.786
6/2/10	0:00		8.908	26.470		42.923	31.885
6/2/10	4:00		8.915	26.431		42.884	31.863
6/2/10	8:00		8.832	26.503		42.937	31.903
6/2/10	12:00		8.815	26.558		42.965	31.930
6/2/10	16:00		8.891	26.542		42.955	31.928
6/2/10	20:00		8.903	26.537		42.941	31.923
6/3/10	0:00		8.807	26.600		42.987	31.966
6/3/10	4:00		8.778	26.600		42.987	31.970
6/3/10	8:00		8.751	26.628		43.013	31.996
6/3/10	12:00		8.827	26.620		43.003	31.997
6/3/10	16:00		8.976	26.560		42.953	31.961
6/3/10	20:00		9.001	26.521		42.908	31.926
6/4/10	0:00		8.920	26.560		42.929	31.950
6/4/10	4:00		8.886	26.572		42.937	31.961
6/4/10	8:00		8.878	26.563		42.923	31.954
6/4/10	12:00		8.932	26.556		42.910	31.950
6/4/10	16:00		9.057	26.519		42.874	31.926
6/4/10	20:00		9.055	26.509		42.852	31.914
6/5/10	0:00		8.981	26.551		42.876	31.943
6/5/10	4:00		8.957	26.542		42.850	31.928
6/5/10	8:00		8.883	26.635		42.931	31.999
6/5/10	12:00		8.937	26.621		42.908	31.990
6/5/10	16:00		9.013	26.600		42.890	31.976
6/5/10	20:00		8.976	26.678		42.937	32.021

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
6/6/10	0:00		8.861	26.829		43.070	32.138
6/6/10	4:00		8.797	26.928		43.154	32.216
6/6/10	8:00		8.768	27.037		43.245	32.298
6/6/10	12:00		8.886	27.037		43.261	32.316
6/6/10	16:00		9.070	27.007		43.239	32.301
6/6/10	20:00		9.128	26.983		43.217	32.285
6/7/10	0:00		9.048	27.043		43.261	32.325
6/7/10	4:00		9.094	26.979		43.215	32.290
6/7/10	8:00		9.072	27.006		43.231	32.307
6/7/10	12:00		9.119	26.998		43.231	32.312
6/7/10	16:00		9.204	26.951		43.189	32.280
6/7/10	20:00		9.219	26.937		43.166	32.261
6/8/10	0:00		9.212	26.921		43.156	32.259
6/8/10	4:00		9.280	26.826		43.074	32.194
6/8/10	8:00		9.231	26.822		43.122	32.179
6/8/10	12:00		9.195	26.863		43.100	32.196
6/8/10	16:00		9.244	26.886		43.092	32.219
6/8/10	20:00		9.234	26.903		43.094	32.229
6/9/10	0:00		9.163	26.991		43.162	32.294
6/9/10	4:00		9.146	27.014		43.183	32.316
6/9/10	8:00		9.094	27.113		43.261	32.387
6/9/10	12:00		9.185	27.124		43.277	32.411
6/9/10	16:00		9.347	27.055		43.221	32.367
6/9/10	20:00		9.364	27.051		43.215	32.363
6/10/10	0:00		9.317	27.069		43.223	32.374
6/10/10	4:00		9.356	27.006		43.174	32.338
6/10/10	8:00		9.344	26.998		43.158	32.329
6/10/10	12:00		9.413	26.940		43.102	32.285
6/10/10	16:00		9.469	26.930		43.098	32.288
6/10/10	20:00		9.494	26.893		43.056	32.256
6/11/10	0:00		9.445	26.903		43.060	32.261
6/11/10	4:00		9.423	26.886		43.025	32.245
6/11/10	8:00		9.329	26.997		43.108	32.321
6/11/10	12:00		9.378	27.007		43.120	32.341
6/11/10	16:00		9.454	27.007		43.114	32.341
6/11/10	20:00		9.430	27.055		43.148	32.376
6/12/10	0:00		9.388	27.120		43.211	32.432
6/12/10	4:00		9.388	27.127		43.213	32.441
6/12/10	8:00		9.327	27.236		43.283	32.516
6/12/10	12:00		9.405	27.180		43.293	32.491
6/12/10	16:00		9.410	27.270		43.328	32.554
6/12/10	20:00		9.442	27.284		43.342	32.571
6/13/10	0:00		9.440	27.307		43.370	32.598
6/13/10	4:00		9.459	27.286		43.332	32.570
6/13/10	8:00		9.474	27.261		43.338	32.572
6/13/10	12:00		9.423	27.355		43.386	32.632
6/13/10	16:00		9.565	27.252		43.322	32.576
6/13/10	20:00		9.599	27.249		43.312	32.572

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
6/14/10	0:00		9.504	27.298		43.297	32.580
6/14/10	4:00		9.484	27.199		43.275	32.549
6/14/10	8:00		9.401	27.206		43.275	32.485
6/14/10	12:00		9.369	27.182		43.301	32.540
6/14/10	16:00		9.349	27.123		43.299	32.532
6/14/10	20:00		9.329	27.049		43.275	32.503
6/15/10	0:00		9.204	27.062		43.305	32.525
6/15/10	4:00		9.180	26.998		43.293	32.507
6/15/10	8:00		9.089	26.998		43.281	32.510
6/15/10	12:00		8.996	27.014		43.295	32.620
6/15/10	16:00		9.021	26.974		43.362	32.523
6/15/10	20:00		9.008	26.917		43.346	32.498
6/16/10	0:00		8.878	26.945		43.400	32.530
6/16/10	4:00		8.817	26.922		43.410	32.531
6/16/10	8:00		8.753	26.922		43.436	32.540
6/16/10	12:00		8.802	26.887		43.436	32.527
6/16/10	16:00		8.866	26.820		43.408	32.492
6/16/10	20:00		8.844	26.732		43.344	32.407
6/17/10	0:00		8.753	26.746		43.346	32.410
6/17/10	4:00		8.775	26.663		43.283	32.352
6/17/10	8:00		8.731	26.654		43.275	32.330
6/17/10	12:00		8.761	26.619		43.243	32.296
6/17/10	16:00		8.856	26.568		43.199	32.252
6/17/10	20:00		8.844	26.559		43.185	32.234
6/18/10	0:00		8.709	26.637		43.239	32.274
6/18/10	4:00		8.704	26.609		43.217	32.252
6/18/10	8:00		8.692	26.596		43.203	32.230
6/18/10	12:00		8.714	26.602		43.195	32.216
6/18/10	16:00		8.854	26.545		43.148	32.172
6/18/10	20:00		8.849	26.541		43.130	32.156
6/19/10	0:00		8.717	26.642		43.201	32.210
6/19/10	4:00		8.653	26.707		43.247	32.250
6/19/10	8:00		8.621	26.779		43.305	32.298
6/19/10	12:00		8.533	26.875		43.330	32.334
6/19/10	16:00		8.626	26.790		43.273	32.250
6/19/10	20:00		8.670	26.723		43.249	32.214
6/20/10	0:00		8.430	26.889		43.308	32.269
6/20/10	4:00		8.552	26.704		43.320	32.301
6/20/10	8:00		8.373	26.827		43.370	32.203
6/20/10	12:00		8.474	26.707		43.320	32.219
6/20/10	16:00		8.567	26.607		43.253	32.154
6/20/10	20:00		8.582	26.511		43.193	32.088
6/21/10	0:00		8.302	26.640		43.273	32.137
6/21/10	4:00		8.356	26.455		43.168	32.228
6/21/10	8:00		8.263	26.464		43.172	32.309
6/21/10	12:00		8.273	26.413		43.160	32.105
6/21/10	16:00		8.366	26.289		43.062	31.924
6/21/10	20:00		8.346	26.258		43.050	31.904

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
6/22/10	0:00		8.239	26.277		43.068	31.910
6/22/10	4:00		8.158	26.293		43.070	31.904
6/22/10	8:00		8.118	26.282		43.080	31.904
6/22/10	12:00		8.175	26.242		43.064	31.884
6/22/10	16:00		8.290	26.178		43.009	31.832
6/22/10	20:00		8.295	26.136		42.973	31.792
6/23/10	0:00		8.194	26.182		43.017	31.823
6/23/10	4:00		8.192	26.125		42.959	31.770
6/23/10	8:00		8.106	26.201		43.009	31.808
6/23/10	12:00		8.172	26.178		42.991	31.788
6/23/10	16:00		8.202	26.234		43.029	31.817
6/23/10	20:00		8.187	26.268		43.052	31.832
6/24/10	0:00		8.104	26.368		43.132	31.896
6/24/10	4:00		8.104	26.376		43.138	31.899
6/24/10	8:00		8.099	26.409		43.162	31.916
6/24/10	12:00		8.192	26.398		43.154	31.904
6/24/10	16:00		8.364	26.324		43.094	31.850
6/24/10	20:00		8.403	26.279		43.035	31.799
6/25/10	0:00		8.349	26.294		43.043	31.801
6/25/10	4:00		8.339	26.268		43.009	31.772
6/25/10	8:00		8.317	26.282		43.007	31.772
6/25/10	12:00		8.418	26.241		42.967	31.737
6/25/10	16:00		8.572	26.162		42.886	31.671
6/25/10	20:00		8.628	26.109		42.824	31.621
6/26/10	0:00		8.557	26.129		42.820	31.619
6/26/10	4:00		8.511	26.130		42.804	31.610
6/26/10	8:00		8.476	26.146		42.802	31.612
6/26/10	12:00		8.528	26.153		42.796	31.612
6/26/10	16:00		8.714	26.060		42.705	31.539
6/26/10	20:00		8.771	25.989		42.628	31.475
6/27/10	0:00		8.677	26.025		42.632	31.480
6/27/10	4:00		8.699	25.940		42.548	31.415
6/27/10	8:00		8.599	26.002		42.590	31.444
6/27/10	12:00		8.552	26.097		42.628	31.499
6/27/10	16:00		8.579	26.145		42.661	31.530
6/27/10	20:00		8.596	26.171		42.663	31.537
6/28/10	0:00		8.528	26.268		42.733	31.603
6/28/10	4:00		8.525	26.293		42.743	31.615
6/28/10	8:00		8.489	26.381		42.804	31.672
6/28/10	12:00		8.587	26.390		42.812	31.684
6/28/10	16:00		8.734	26.395		42.810	31.686
6/28/10	20:00		8.771	26.407		42.810	31.688
6/29/10	0:00		8.682	26.504		42.882	31.754
6/29/10	4:00		8.638	26.568		42.931	31.797
6/29/10	8:00		8.611	26.629		42.979	31.843
6/29/10	12:00		8.685	26.666		43.013	31.876
6/29/10	16:00		8.851	26.657		43.003	31.873
6/29/10	20:00		8.905	26.649		42.991	31.865

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
6/30/10	0:00		8.849	26.686		43.015	31.888
6/30/10	4:00		8.829	26.705		43.027	31.905
6/30/10	8:00		8.783	26.772		43.076	31.948
6/30/10	12:00		8.883	26.775		43.084	31.963
6/30/10	16:00		9.065	26.719		43.037	31.928
6/30/10	20:00		9.109	26.698		43.007	31.906
7/1/10	0:00		9.016	26.761		43.046	31.948
7/1/10	4:00		8.999	26.777		43.060	31.964
7/1/10	8:00		8.974	26.816		43.084	31.992
7/1/10	12:00		9.065	26.813		43.078	31.997
7/1/10	16:00		9.236	26.751		43.023	31.961
7/1/10	20:00		9.273	26.721		42.989	31.936
7/2/10	0:00		9.202	26.744		42.991	31.946
7/2/10	4:00		9.185	26.735		42.979	31.943
7/2/10	8:00		9.170	26.738		42.973	31.945
7/2/10	12:00		9.256	26.708		42.947	31.926
7/2/10	16:00		9.418	26.631		42.878	31.877
7/2/10	20:00		9.464	26.587		42.826	31.839
7/3/10	0:00		9.361	26.631		42.848	31.863
7/3/10	4:00		9.376	26.578		42.802	31.832
7/3/10	8:00		9.334	26.594		42.800	31.839
7/3/10	12:00		9.364	26.587		42.786	31.835
7/3/10	16:00		9.462	26.548		42.745	31.808
7/3/10	20:00		9.464	26.537		42.725	31.797
7/4/10	0:00		9.410	26.562		42.731	31.810
7/4/10	4:00		9.413	26.545		42.713	31.804
7/4/10	8:00		9.403	26.564		42.719	31.817
7/4/10	12:00		9.401	26.580		42.721	31.824
7/4/10	16:00		9.393	26.599		42.717	31.835
7/4/10	20:00		9.197	26.555		42.691	31.857
7/5/10	0:00		9.104	26.578		42.681	31.963
7/5/10	4:00		9.089	26.513		42.673	32.012
7/5/10	8:00		9.016	26.483		42.661	31.855
7/5/10	12:00		8.964	26.444		42.683	31.793
7/5/10	16:00		8.944	26.347		42.687	31.879
7/5/10	20:00		8.849	26.343		42.648	31.726
7/6/10	0:00		8.729	26.359		42.697	31.766
7/6/10	4:00		8.660	26.342		42.711	31.775
7/6/10	8:00		8.587	26.343		42.741	31.790
7/6/10	12:00		8.567	26.342		42.761	31.805
7/6/10	16:00		8.623	26.297		42.751	31.790
7/6/10	20:00		8.621	26.264		42.739	31.772
7/7/10	0:00		8.530	26.290		42.777	31.797
7/7/10	4:00		8.491	26.275		42.777	31.790
7/7/10	8:00		8.444	26.283		42.796	31.797
7/7/10	12:00		8.432	26.299		42.816	31.810
7/7/10	16:00		8.498	26.239		42.777	31.772
7/7/10	20:00		8.483	26.248		42.777	31.768

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
7/8/10	0:00		8.398	26.299		42.790	31.801
7/8/10	4:00		8.405	26.271		42.779	31.777
7/8/10	8:00		8.364	26.303		42.826	31.793
7/8/10	12:00		8.356	26.333		42.860	31.815
7/8/10	16:00		8.410	26.305		42.834	31.792
7/8/10	20:00		8.420	26.289		42.814	31.773
7/9/10	0:00		8.373	26.312		42.832	31.786
7/9/10	4:00		8.364	26.292		42.820	31.775
7/9/10	8:00		8.319	26.324		42.842	31.788
7/9/10	12:00		8.364	26.325		42.850	31.792
7/9/10	16:00		8.501	26.268		42.798	31.746
7/9/10	20:00		8.530	26.239		42.765	31.719
7/10/10	0:00		8.468	26.253		42.771	31.722
7/10/10	4:00		8.444	26.239		42.753	31.708
7/10/10	8:00		8.422	26.244		42.749	31.708
7/10/10	12:00		8.491	26.220		42.727	31.691
7/10/10	16:00		8.626	26.158		42.667	31.642
7/10/10	20:00		8.684	26.093		42.600	31.586
7/11/10	0:00		8.623	26.091		42.586	31.573
7/11/10	4:00		8.633	26.026		42.524	31.524
7/11/10	8:00		8.540	26.006		42.509	31.522
7/11/10	12:00		8.510	25.985		42.459	31.555
7/11/10	16:00		8.567	25.929		42.397	31.400
7/11/10	20:00		8.535	25.888		42.330	31.360
7/12/10	0:00		8.366	25.968		42.413	31.373
7/12/10	4:00		8.343	25.909		42.318	31.335
7/12/10	8:00		8.268	25.929		42.364	31.306
7/12/10	12:00		8.224	25.969		42.399	31.430
7/12/10	16:00		8.295	25.892		42.344	31.382
7/12/10	20:00		8.263	25.874		42.316	31.349
7/13/10	0:00		8.207	25.890		42.336	31.364
7/13/10	4:00		8.182	25.878		42.332	31.353
7/13/10	8:00		8.120	25.918		42.362	31.371
7/13/10	12:00		8.179	25.899		42.354	31.362
7/13/10	16:00		8.272	25.883		42.364	31.351
7/13/10	20:00		8.304	25.860		42.336	31.329
7/14/10	0:00		8.229	25.908		42.372	31.358
7/14/10	4:00		8.194	25.931		42.388	31.371
7/14/10	8:00		8.160	25.968		42.415	31.389
7/14/10	12:00		8.206	25.982		42.429	31.402
7/14/10	16:00		8.316	25.978		42.419	31.397
7/14/10	20:00		8.368	25.931		42.366	31.357
7/15/10	0:00		8.206	26.100		42.495	31.466
7/15/10	4:00		8.204	26.094		42.471	31.466
7/15/10	8:00		8.184	26.142		42.532	31.495
7/15/10	12:00		8.228	26.191		42.578	31.533
7/15/10	16:00		8.358	26.177		42.568	31.528
7/15/10	20:00		8.427	26.137		42.530	31.497

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
7/16/10	0:00		8.353	26.188		42.562	31.526
7/16/10	4:00		8.366	26.170		42.548	31.515
7/16/10	8:00		8.370	26.177		42.550	31.515
7/16/10	12:00		8.434	26.165		42.536	31.508
7/16/10	16:00		8.567	26.105		42.485	31.469
7/16/10	20:00		8.569	26.100		42.461	31.453
7/17/10	0:00		8.525	26.128		42.481	31.471
7/17/10	4:00		8.505	26.142		42.489	31.480
7/17/10	8:00		8.515	26.133		42.465	31.469
7/17/10	12:00		8.567	26.137		42.463	31.473
7/17/10	16:00		8.701	26.091		42.419	31.442
7/17/10	20:00		8.753	26.050		42.374	31.411
7/18/10	0:00		8.692	26.082		42.384	31.422
7/18/10	4:00		8.689	26.066		42.391	31.418
7/18/10	8:00		8.576	26.195		42.459	31.493
7/18/10	12:00		8.628	26.190		42.449	31.495
7/18/10	16:00		8.750	26.142		42.415	31.471
7/18/10	20:00		8.768	26.156		42.403	31.468
7/19/10	0:00		8.721	26.204		42.405	31.497
7/19/10	4:00		8.775	26.144		42.354	31.464
7/19/10	8:00		8.768	26.145		42.407	31.457
7/19/10	12:00		8.772	26.168		42.409	31.471
7/19/10	16:00		8.893	26.121		42.364	31.442
7/19/10	20:00		8.922	26.115		42.342	31.431
7/20/10	0:00		8.888	26.135		42.342	31.440
7/20/10	4:00		8.841	26.182		42.374	31.473
7/20/10	8:00		8.834	26.214		42.395	31.500
7/20/10	12:00		8.797	26.320		42.505	31.582
7/20/10	16:00		8.844	26.323		42.497	31.580
7/20/10	20:00		8.782	26.374		42.483	31.602
7/21/10	0:00		8.768	26.419		42.532	31.631
7/21/10	4:00		8.760	26.443		42.574	31.651
7/21/10	8:00		8.733	26.489		42.608	31.686
7/21/10	12:00		8.750	26.523		42.650	31.730
7/21/10	16:00		8.880	26.448		42.590	31.684
7/21/10	20:00		8.951	26.390		42.538	31.644
7/22/10	0:00		8.929	26.399		42.522	31.650
7/22/10	4:00		8.944	26.353		42.477	31.621
7/22/10	8:00		8.905	26.371		42.477	31.628
7/22/10	12:00		8.973	26.336		42.453	31.615
7/22/10	16:00		9.064	26.297		42.413	31.588
7/22/10	20:00		9.081	26.281		42.393	31.575
7/23/10	0:00		8.998	26.329		42.427	31.612
7/23/10	4:00		8.981	26.323		42.417	31.612
7/23/10	8:00		8.927	26.380		42.455	31.653
7/23/10	12:00		8.969	26.397		42.469	31.672
7/23/10	16:00		9.084	26.383		42.459	31.668
7/23/10	20:00		9.113	26.374		42.445	31.661

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
7/24/10	0:00		9.045	26.427		42.483	31.701
7/24/10	4:00		9.042	26.420		42.479	31.703
7/24/10	8:00		8.998	26.473		42.517	31.743
7/24/10	12:00		8.996	26.554		42.578	31.803
7/24/10	16:00		9.020	26.605		42.612	31.854
7/24/10	20:00		9.059	26.591		42.612	31.845
7/25/10	0:00		8.951	26.754		42.741	31.961
7/25/10	4:00		9.047	26.692		42.707	31.937
7/25/10	8:00		8.996	26.773		42.763	31.992
7/25/10	12:00		9.064	26.799		42.796	32.027
7/25/10	16:00		9.219	26.771		42.775	32.017
7/25/10	20:00		9.290	26.736		42.743	31.994
7/26/10	0:00		9.228	26.787		42.779	32.032
7/26/10	4:00		9.270	26.741		42.747	32.012
7/26/10	8:00		9.236	26.778		42.769	32.037
7/26/10	12:00		9.307	26.766		42.763	32.043
7/26/10	16:00		9.449	26.699		42.711	32.003
7/26/10	20:00		9.464	26.681		42.681	31.985
7/27/10	0:00		9.395	26.730		42.723	32.027
7/27/10	4:00		9.385	26.725		42.713	32.025
7/27/10	8:00		9.361	26.746		42.727	32.045
7/27/10	12:00		9.410	26.752		42.731	32.061
7/27/10	16:00		9.532	26.729		42.711	32.052
7/27/10	20:00		9.584	26.706		42.689	32.041
7/28/10	0:00		9.488	26.783		42.745	32.092
7/28/10	4:00		9.469	26.790		42.751	32.105
7/28/10	8:00		9.422	26.856		42.802	32.156
7/28/10	12:00		9.474	26.877		42.826	32.185
7/28/10	16:00		9.613	26.866		42.824	32.190
7/28/10	20:00		9.628	26.878		42.832	32.203
7/29/10	0:00		9.547	26.961		42.902	32.267
7/29/10	4:00		9.535	26.981		42.921	32.290
7/29/10	8:00		9.525	27.005		42.943	32.316
7/29/10	12:00		9.599	27.000		42.951	32.327
7/29/10	16:00		9.719	26.967		42.919	32.316
7/29/10	20:00		9.785	26.898		42.862	32.267
7/30/10	0:00		9.736	26.924		42.878	32.289
7/30/10	4:00		9.753	26.884		42.850	32.267
7/30/10	8:00		9.753	26.861		42.822	32.249
7/30/10	12:00		9.782	26.831		42.824	32.234
7/30/10	16:00		9.878	26.785		42.757	32.210
7/30/10	20:00		9.858	26.808		42.751	32.214
7/31/10	0:00		9.819	26.834		42.781	32.247
7/31/10	4:00		9.785	26.864		42.802	32.272
7/31/10	8:00		9.733	26.929		42.854	32.323
7/31/10	12:00		9.768	26.966		42.886	32.361
7/31/10	16:00		9.888	26.961		42.888	32.372
7/31/10	20:00		9.930	26.949		42.874	32.365

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
8/1/10	0:00		9.863	27.003		42.921	32.411
8/1/10	4:00		9.849	27.018		42.929	32.427
8/1/10	8:00		9.805	27.069		42.971	32.472
8/1/10	12:00		9.878	27.062		42.973	32.483
8/1/10	16:00		10.013	27.042		42.957	32.476
8/1/10	20:00		10.069	27.021		42.941	32.469
8/2/10	0:00		10.020	27.048		42.963	32.492
8/2/10	4:00		10.020	27.028		42.947	32.487
8/2/10	8:00		10.006	27.037		42.955	32.500
8/2/10	12:00		10.042	27.051		42.965	32.518
8/2/10	16:00		10.182	27.014		42.935	32.502
8/2/10	20:00		10.207	27.021		42.939	32.511
8/3/10	0:00		10.140	27.069		42.979	32.551
8/3/10	4:00		10.115	27.074		42.985	32.567
8/3/10	8:00		10.059	27.136		43.031	32.612
8/3/10	12:00		10.101	27.171		43.068	32.654
8/3/10	16:00		10.245	27.146		43.054	32.651
8/3/10	20:00		10.302	27.125		43.039	32.641
8/4/10	0:00		10.240	27.164		43.070	32.674
8/4/10	4:00		10.158	27.240		43.116	32.722
8/4/10	8:00		10.180	27.240		43.144	32.755
8/4/10	12:00		10.165	27.310		43.193	32.805
8/4/10	16:00		10.223	27.307		43.205	32.823
8/4/10	20:00		10.290	27.279		43.191	32.816
8/5/10	0:00		10.238	27.337		43.239	32.863
8/5/10	4:00		10.251	27.333		43.255	32.876
8/5/10	8:00		10.224	27.396		43.297	32.925
8/5/10	12:00		10.285	27.426		43.336	32.969
8/5/10	16:00		10.454	27.370		43.293	32.942
8/5/10	20:00		10.501	27.358		43.223	32.938
8/6/10	0:00		10.430	27.418		43.241	32.989
8/6/10	4:00		10.425	27.409		43.227	33.000
8/6/10	8:00		10.378	27.470		43.271	33.049
8/6/10	12:00		10.430	27.495		43.297	33.086
8/6/10	16:00		10.588	27.433		43.247	33.056
8/6/10	20:00		10.652	27.398		43.219	33.040
8/7/10	0:00		10.579	27.442		43.253	33.075
8/7/10	4:00		10.587	27.411		43.231	33.069
8/7/10	8:00		10.564	27.423		43.241	33.084
8/7/10	12:00		10.621	27.418		43.243	33.097
8/7/10	16:00		10.748	27.366		43.199	33.065
8/7/10	20:00		10.794	27.331		43.170	33.047
8/8/10	0:00		10.726	27.379		43.209	33.087
8/8/10	4:00		10.704	27.377		43.207	33.095
8/8/10	8:00		10.694	27.381		43.213	33.109
8/8/10	12:00		10.731	27.398		43.229	33.133
8/8/10	16:00		10.868	27.356		43.201	33.116
8/8/10	20:00		10.905	27.349		43.187	33.113

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
8/9/10	0:00		10.821	27.414		43.241	33.167
8/9/10	4:00		10.797	27.423		43.255	33.189
8/9/10	8:00		10.728	27.504		43.318	33.249
8/9/10	12:00		10.785	27.536		43.360	33.298
8/9/10	16:00		10.927	27.499		43.340	33.289
8/9/10	20:00		10.954	27.508		43.344	33.297
8/10/10	0:00		10.878	27.587		43.416	33.368
8/10/10	4:00		10.878	27.573		43.416	33.375
8/10/10	8:00		10.851	27.599		43.441	33.404
8/10/10	12:00		10.892	27.629		43.477	33.444
8/10/10	16:00		11.057	27.571		43.436	33.419
8/10/10	20:00		11.079	27.567		43.432	33.422
8/11/10	0:00		11.030	27.611		43.483	33.473
8/11/10	4:00		10.986	27.636		43.499	33.495
8/11/10	8:00		10.944	27.682		43.543	33.539
8/11/10	12:00		11.003	27.693		43.563	33.570
8/11/10	16:00		11.155	27.652		43.539	33.557
8/11/10	20:00		11.194	27.654		43.531	33.560
8/12/10	0:00		11.145	27.684		43.568	33.597
8/12/10	4:00		11.128	27.678		43.572	33.608
8/12/10	8:00		11.111	27.684		43.580	33.624
8/12/10	12:00		11.172	27.664		43.576	33.630
8/12/10	16:00		11.334	27.595		43.521	33.593
8/12/10	20:00		11.383	27.562		43.487	33.568
8/13/10	0:00		11.317	27.594		43.523	33.606
8/13/10	4:00		11.285	27.606		43.527	33.621
8/13/10	8:00		11.277	27.588		43.519	33.619
8/13/10	12:00		11.336	27.573		43.513	33.626
8/13/10	16:00		11.420	27.537		43.489	33.617
8/13/10	20:00		11.282	27.633		43.549	33.671
8/14/10	0:00		11.226	27.715		43.630	33.748
8/14/10	4:00		11.209	27.763		43.676	33.801
8/14/10	8:00		11.211	27.811		43.725	33.854
8/14/10	12:00		11.268	27.844		43.769	33.901
8/14/10	16:00		11.366	27.871		43.801	33.937
8/14/10	20:00		11.385	27.909		43.844	33.981
8/15/10	0:00		11.331	27.994		43.920	34.056
8/15/10	4:00		11.282	28.082		44.017	34.146
8/15/10	8:00		11.287	28.126		44.065	34.197
8/15/10	12:00		11.348	28.151		44.112	34.245
8/15/10	16:00		11.469	28.146		44.116	34.259
8/15/10	20:00		11.552	28.109		44.106	34.256
8/16/10	0:00		11.498	28.169		44.166	34.314
8/16/10	4:00		11.473	28.198		44.204	34.354
8/16/10	8:00		11.469	28.218		44.235	34.388
8/16/10	12:00		11.547	28.209		44.247	34.408
8/16/10	16:00		11.716	28.139		44.200	34.374
8/16/10	20:00		11.777	28.091		44.164	34.348

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
8/17/10	0:00		11.687	28.170		44.227	34.407
8/17/10	4:00		11.726	28.128		44.221	34.410
8/17/10	8:00		11.701	28.140		44.223	34.423
8/17/10	12:00		11.706	28.161		44.253	34.458
8/17/10	16:00		11.770	28.131		44.233	34.452
8/17/10	20:00		11.802	28.116		44.225	34.452
8/18/10	0:00		11.758	28.167		44.273	34.501
8/18/10	4:00		11.780	28.159		44.275	34.516
8/18/10	8:00		11.785	28.170		44.291	34.536
8/18/10	12:00		11.836	28.172		44.303	34.558
8/18/10	16:00		11.979	28.100		44.253	34.521
8/18/10	20:00		12.020	28.064		44.218	34.501
8/19/10	0:00		11.954	28.103		44.257	34.541
8/19/10	4:00		11.954	28.075		44.237	34.534
8/19/10	8:00		11.937	28.082		44.247	34.552
8/19/10	12:00		11.979	28.082		44.257	34.569
8/19/10	16:00		12.113	28.013		44.204	34.534
8/19/10	20:00		12.145	27.990		44.180	34.519
8/20/10	0:00		12.094	28.008		44.200	34.543
8/20/10	4:00		12.091	27.978		44.178	34.534
8/20/10	8:00		12.055	27.999		44.196	34.558
8/20/10	12:00		12.055	28.020		44.198	34.585
8/20/10	16:00		11.993	27.962		44.192	34.541
8/20/10	20:00		11.912	27.985		44.164	34.532
8/21/10	0:00		11.849	28.050		44.235	34.592
8/21/10	4:00		11.809	28.103		44.285	34.643
8/21/10	8:00		11.770	28.175		44.350	34.710
8/21/10	12:00		11.755	28.271		44.442	34.803
8/21/10	16:00		11.861	28.279		44.468	34.834
8/21/10	20:00		11.890	28.295		44.495	34.861
8/22/10	0:00		11.836	28.362		44.565	34.927
8/22/10	4:00		11.841	28.366		44.579	34.949
8/22/10	8:00		11.801	28.424		44.642	35.009
8/22/10	12:00		11.841	28.449		44.686	35.056
8/22/10	16:00		11.976	28.398		44.660	35.038
8/22/10	20:00		12.029	28.366		44.646	35.029
8/23/10	0:00		11.983	28.392		44.674	35.058
8/23/10	4:00		11.968	28.385		44.678	35.067
8/23/10	8:00		11.959	28.396		44.696	35.089
8/23/10	12:00		12.015	28.385		44.702	35.102
8/23/10	16:00		12.118	28.334		44.668	35.080
8/23/10	20:00		12.118	28.332		44.662	35.083
8/24/10	0:00		12.056	28.375		44.708	35.129
8/24/10	4:00		11.953	28.487		44.799	35.218
8/24/10	8:00		11.934	28.551		44.874	35.295
8/24/10	12:00		11.944	28.602		44.940	35.362
8/24/10	16:00		12.054	28.570		44.934	35.365
8/24/10	20:00		12.074	28.588		44.960	35.395

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
8/25/10	0:00		12.042	28.628		45.009	35.444
8/25/10	4:00		12.035	28.628		45.027	35.466
8/25/10	8:00		12.005	28.676		45.077	35.517
8/25/10	12:00		12.079	28.681		45.107	35.553
8/25/10	16:00		12.240	28.612		45.063	35.526
8/25/10	20:00		12.280	28.598		45.059	35.522
8/26/10	0:00		12.245	28.619		45.085	35.553
8/26/10	4:00		12.231	28.625		45.099	35.575
8/26/10	8:00		12.213	28.653		45.132	35.611
8/26/10	12:00		12.260	28.649		45.146	35.633
8/26/10	16:00		12.405	28.579		45.097	35.598
8/26/10	20:00		12.446	28.535		45.061	35.573
8/27/10	0:00		12.397	28.556		45.081	35.600
8/27/10	4:00		12.385	28.551		45.083	35.609
8/27/10	8:00		12.356	28.572		45.105	35.637
8/27/10	12:00		12.419	28.552		45.105	35.648
8/27/10	16:00		12.554	28.471		45.039	35.604
8/27/10	20:00		12.576	28.434		45.003	35.577
8/28/10	0:00		12.493	28.485		45.043	35.622
8/28/10	4:00		12.485	28.470		45.041	35.629
8/28/10	8:00		12.444	28.505		45.067	35.660
8/28/10	12:00		12.495	28.498		45.077	35.680
8/28/10	16:00		12.620	28.431		45.031	35.649
8/28/10	20:00		12.652	28.411		45.011	35.640
8/29/10	0:00		12.561	28.480		45.071	35.700
8/29/10	4:00		12.549	28.482		45.081	35.720
8/29/10	8:00		12.520	28.528		45.125	35.768
8/29/10	12:00		12.557	28.544		45.154	35.802
8/29/10	16:00		12.691	28.489		45.119	35.780
8/29/10	20:00		12.701	28.500		45.132	35.799
8/30/10	0:00		12.635	28.575		45.202	35.868
8/30/10	4:00		12.615	28.605		45.242	35.911
8/30/10	8:00		12.584	28.662		45.301	35.971
8/30/10	12:00		12.657	28.649		45.313	35.991
8/30/10	16:00		12.812	28.560		45.252	35.948
8/30/10	20:00		12.861	28.523		45.218	35.924
8/31/10	0:00		12.816	28.558		45.254	35.964
8/31/10	4:00		12.802	28.565		45.267	35.984
8/31/10	8:00		12.785	28.581		45.285	36.006
8/31/10	12:00		12.831	28.568		45.283	36.017
8/31/10	16:00		12.932	28.524		45.256	36.000
8/31/10	20:00		12.968	28.496		45.222	35.980
9/1/10	0:00		12.785	28.607		45.337	36.071
9/1/10	4:00		12.755	28.644		45.373	36.121
9/1/10	8:00		12.760	28.634		45.369	36.128
9/1/10	12:00		12.699	28.720		45.438	36.192
9/1/10	16:00		12.836	28.582		45.404	36.122
9/1/10	20:00		12.831	28.575		45.341	36.110

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
9/2/10	0:00		12.787	28.604		45.369	36.141
9/2/10	4:00		12.782	28.584		45.301	36.144
9/2/10	8:00		12.755	28.597		45.377	36.157
9/2/10	12:00		12.691	28.672		45.434	36.219
9/2/10	16:00		12.640	28.759		45.514	36.297
9/2/10	20:00		12.640	28.789		45.567	36.353
9/3/10	0:00		12.537	28.917		45.688	36.461
9/3/10	4:00		12.544	28.938		45.732	36.510
9/3/10	8:00		12.559	28.963		45.777	36.554
9/3/10	12:00		12.623	28.974		45.801	36.586
9/3/10	16:00		12.770	28.914		45.775	36.566
9/3/10	20:00		12.814	28.894		45.764	36.561
9/4/10	0:00		12.775	28.928		45.805	36.601
9/4/10	4:00		12.763	28.939		45.829	36.626
9/4/10	8:00		12.738	28.958		45.853	36.654
9/4/10	12:00		12.821	28.914		45.837	36.648
9/4/10	16:00		12.993	28.787		45.740	36.570
9/4/10	20:00		13.030	28.729		45.680	36.519
9/5/10	0:00		12.988	28.730		45.684	36.528
9/5/10	4:00		12.981	28.700		45.658	36.516
9/5/10	8:00		12.986	28.662		45.629	36.495
9/5/10	12:00		13.010	28.639		45.613	36.488
9/5/10	16:00		13.125	28.526		45.506	36.403
9/5/10	20:00		13.110	28.526		45.492	36.397
9/6/10	0:00		13.073	28.538		45.504	36.417
9/6/10	4:00		13.056	28.522		45.490	36.413
9/6/10	8:00		13.029	28.524		45.492	36.424
9/6/10	12:00		13.035	28.531		45.498	36.443
9/6/10	16:00		13.054	28.561		45.514	36.468
9/6/10	20:00		12.885	28.806		45.722	36.661
9/7/10	0:00		12.818	28.953		45.881	36.816
9/7/10	4:00		12.826	28.995		45.952	36.887
9/7/10	8:00		12.791	29.071		46.041	36.970
9/7/10	12:00		12.838	29.117		46.115	37.047
9/7/10	16:00		13.010	29.060		46.101	37.036
9/7/10	20:00		13.068	29.062		46.109	37.048
9/8/10	0:00		13.071	29.074		46.139	37.079
9/8/10	4:00		13.098	29.057		46.141	37.085
9/8/10	8:00		13.073	29.092		46.180	37.125
9/8/10	12:00		13.142	29.071		46.184	37.138
9/8/10	16:00		13.257	28.990		46.127	37.094
9/8/10	20:00		13.319	28.937		46.085	37.061
9/9/10	0:00		13.292	28.960		46.109	37.088
9/9/10	4:00		13.338	28.903		46.071	37.061
9/9/10	8:00		13.338	28.887		46.053	37.054
9/9/10	12:00		13.360	28.861		46.073	37.048
9/9/10	16:00		13.422	28.792		45.976	37.001
9/9/10	20:00		13.395	28.799		45.976	37.010

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
9/10/10	0:00		13.360	28.820		45.988	37.038
9/10/10	4:00		13.370	28.808		45.992	37.043
9/10/10	8:00		13.375	28.792		45.982	37.039
9/10/10	12:00		13.382	28.787		45.992	37.048
9/10/10	16:00		13.426	28.753		45.990	37.032
9/10/10	20:00		13.385	28.780		45.972	37.059
9/11/10	0:00		13.265	28.924		46.026	37.174
9/11/10	4:00		13.206	29.032		46.202	37.285
9/11/10	8:00		13.154	29.125		46.301	37.378
9/11/10	12:00		13.184	29.162		46.367	37.447
9/11/10	16:00		13.316	29.131		46.363	37.451
9/11/10	20:00		13.341	29.150		46.389	37.478
9/12/10	0:00		13.321	29.187		46.442	37.529
9/12/10	4:00		13.311	29.198		46.470	37.560
9/12/10	8:00		13.282	29.236		46.512	37.602
9/12/10	12:00		13.326	29.233		46.538	37.631
9/12/10	16:00		13.475	29.161		46.494	37.598
9/12/10	20:00		13.502	29.145		46.480	37.589
9/13/10	0:00		13.468	29.176		46.520	37.633
9/13/10	4:00		13.471	29.171		46.528	37.647
9/13/10	8:00		13.439	29.208		46.565	37.687
9/13/10	12:00		13.493	29.185		46.569	37.696
9/13/10	16:00		13.635	29.088		46.496	37.638
9/13/10	20:00		13.547	29.152		46.488	37.642
9/14/10	0:00		13.404	29.122		46.476	37.645
9/14/10	4:00		13.309	29.189		46.460	37.783
9/14/10	8:00		13.289	29.166		46.520	37.674
9/14/10	12:00		13.247	29.206		46.627	37.722
9/14/10	16:00		13.328	29.141		46.581	37.683
9/14/10	20:00		13.306	29.145		46.585	37.685
9/15/10	0:00		13.250	29.173		46.617	37.716
9/15/10	4:00		13.252	29.136		46.593	37.694
9/15/10	8:00		13.235	29.134		46.609	37.705
9/15/10	12:00		13.331	28.988		46.597	37.576
9/15/10	16:00		13.250	29.042		46.520	37.629
9/15/10	20:00		13.225	29.040		46.508	37.623
9/16/10	0:00		13.144	29.097		46.557	37.669
9/16/10	4:00		13.081	29.160		46.615	37.727
9/16/10	8:00		13.037	29.220		46.675	37.789
9/16/10	12:00		13.005	29.300		46.758	37.867
9/16/10	16:00		13.076	29.264		46.746	37.860
9/16/10	20:00		13.142	29.212		46.718	37.834
9/17/10	0:00		13.110	29.238		46.740	37.858
9/17/10	4:00		13.115	29.233		46.752	37.874
9/17/10	8:00		13.088	29.250		46.766	37.893
9/17/10	12:00		13.108	29.249		46.780	37.907
9/17/10	16:00		13.233	29.167		46.720	37.858
9/17/10	20:00		13.225	29.174		46.720	37.862

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
9/18/10	0:00		13.169	29.224		46.768	37.913
9/18/10	4:00		13.164	29.227		46.778	37.929
9/18/10	8:00		13.102	29.300		46.845	37.993
9/18/10	12:00		13.117	29.316		46.875	38.029
9/18/10	16:00		13.196	29.273		46.855	38.015
9/18/10	20:00		13.189	29.293		46.877	38.038
9/19/10	0:00		13.166	29.328		46.913	38.076
9/19/10	4:00		13.173	29.316		46.909	38.080
9/19/10	8:00		13.144	29.356		46.954	38.127
9/19/10	12:00		13.156	29.374		46.986	38.164
9/19/10	16:00		13.262	29.301		46.936	38.124
9/19/10	20:00		13.286	29.282		46.921	38.115
9/20/10	0:00		13.279	29.284		46.931	38.129
9/20/10	4:00		13.319	29.226		46.887	38.093
9/20/10	8:00		13.291	29.241		46.897	38.109
9/20/10	12:00		13.319	29.219		46.887	38.109
9/20/10	16:00		13.444	29.122		46.802	38.040
9/20/10	20:00		13.458	29.088		46.762	38.009
9/21/10	0:00		13.399	29.125		46.790	38.042
9/21/10	4:00		13.367	29.132		46.802	38.060
9/21/10	8:00		13.333	29.155		46.819	38.082
9/21/10	12:00		13.355	29.139		46.817	38.093
9/21/10	16:00		13.399	29.116		46.794	38.078
9/21/10	20:00		13.071	29.178		46.714	38.184
9/22/10	0:00		12.894	29.194		46.690	38.597
9/22/10	4:00		12.823	29.224		46.901	38.646
9/22/10	8:00		12.752	29.245		46.942	38.415
9/22/10	12:00		12.727	29.227		46.960	38.185
9/22/10	16:00		12.796	29.122		46.893	38.127
9/22/10	20:00		12.774	29.074		46.853	38.091
9/23/10	0:00		12.676	29.102		46.887	38.122
9/23/10	4:00		12.651	29.051		46.859	38.091
9/23/10	8:00		12.605	29.032		46.849	38.080
9/23/10	12:00		12.587	29.005		46.833	38.064
9/23/10	16:00		12.580	28.951		46.778	38.016
9/23/10	20:00		12.457	28.991		46.756	38.045
9/24/10	0:00		12.288	29.111		46.724	38.162
9/24/10	4:00		12.153	29.222		47.032	38.140
9/24/10	8:00		12.031	29.323		47.135	38.302
9/24/10	12:00		11.997	29.354		47.210	38.375
9/24/10	16:00		12.090	29.300		47.187	38.349
9/24/10	20:00		12.090	29.294		47.189	38.344
9/25/10	0:00		12.046	29.312		47.228	38.371
9/25/10	4:00		12.058	29.257		47.200	38.340
9/25/10	8:00		12.068	29.204		47.179	38.315
9/25/10	12:00		12.041	29.192		47.246	38.284
9/25/10	16:00		11.994	29.208		47.187	38.302
9/25/10	20:00		11.918	29.250		47.210	38.331

TABLE S.3 (Cont.)

		Depth to Water (ft TOC)					
Date	Time	SB09	SB34	SB62	SB63	MW2	MW4
9/26/10	0:00		11.867	29.273		47.240	38.358
9/26/10	4:00		11.842	29.280		47.256	38.371
9/26/10	8:00		11.805	29.303		47.282	38.391
9/26/10	12:00		11.800	29.310		47.302	38.407
9/26/10	16:00		11.923	29.204		47.226	38.336
9/26/10	20:00		11.921	29.189		47.198	38.311
9/27/10	0:00		11.898	29.173		47.187	38.300
9/27/10	4:00		11.889	29.143		47.165	38.282
9/27/10	8:00		11.830	29.150		47.163	38.278
9/27/10	12:00		11.837	29.122		47.145	38.266
9/27/10	16:00		11.933	29.028		47.058	38.189
9/27/10	20:00		11.933	28.989		47.016	38.151
9/28/10	0:00		11.901	28.970		46.986	38.127
9/28/10	4:00		11.842	28.988		46.992	38.136
9/28/10	8:00		11.761	29.049		47.036	38.180
9/28/10	12:00		11.742	29.072		47.065	38.213
9/28/10	16:00		11.847	28.994		47.004	38.162
9/28/10	20:00		11.847	29.000		46.998	38.156
9/29/10	0:00		11.813	29.012		47.012	38.173
9/29/10	4:00		11.800	29.002		47.002	38.167
9/29/10	8:00		11.739	29.039		47.024	38.191
9/29/10	12:00		11.764	29.018		47.018	38.189
9/29/10	16:00		11.845	28.972		46.972	38.153
9/29/10	20:00		11.820	29.018		47.002	38.182
9/30/10	0:00		11.705	29.148		47.113	38.287
9/30/10	4:00		11.661	29.220		47.185	38.362
9/30/10	8:00		11.626	29.294		47.264	38.438
9/30/10	12:00		11.644	29.337		47.319	38.491
9/30/10	16:00		11.766	29.282		47.288	38.467
9/30/10	20:00		11.780	29.307		47.310	38.489
10/1/10	0:00		11.756	29.351		47.359	38.535
10/1/10	4:00		11.759	29.358		47.375	38.553
10/1/10	8:00		11.734	29.390		47.409	38.588
10/1/10	12:00		11.778	29.379		47.415	38.598



Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Bldg. 203
Argonne, IL 60439-4843
www.anl.gov



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