FINAL
GROUNDWATER SAMPLING REPORT
(November 2008 Sampling Event)

Multi Site G
Operation, Maintenance & Monitoring

Liberty Industrial Finishing Site
Brentwood, Suffolk County, NY
Site 1-52-108

Work Assignment No.
D004445-14.2A

Prepared for:

SUPERFUND STANDBY PROGRAM
New York State
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1.0 INTRODUCTION

Past releases from the Liberty Industrial Finishing Site in Brentwood, New York (Site No. 1-52-108) resulted in the contamination of soil and groundwater at the Site and surrounding areas. AECOM Technical Services Northeast, Inc. (AECOM [formerly Earth Tech Northeast, Inc]) has been tasked with collecting three rounds of five-quarterly samples from selected monitoring wells as part of a long-term monitoring plan. AECOM is performing this work under the New York State Department of Environmental Conservation (NYSDEC) Superfund Standby Contract Work Assignment D004445-14.2. The first round of sampling was conducted in June 2006. The second round of sampling was conducted in August 2007. This report presents the results from the third and final round of sampling conducted in November 2008.

2.0 SITE DESCRIPTION

The Liberty Industrial Finishing Superfund site is located at 550 Suffolk Avenue, Brentwood, Suffolk County, New York (see Figure 1). The Site is bounded to the north by Suffolk Avenue, by the Long Island Railroad to the south, undeveloped land to the east and a gasoline station the west on Suffolk Avenue. Eight monitoring wells are included in the long-term monitoring program at the Site.

3.0 FIELD ACTIVITIES

The monitoring well survey information could not be located at the start of this project. As a part of this long-term monitoring program, each of the eight wells included in the sampling program were re-surveyed by YEC, Inc., a licensed New York State surveyor on March 21, 2007. A summary of well construction data is presented on Table 1.

The field sampling at the Liberty Industrial Finishing Site occurred on November 13 and 14, and December 23, 2008. Sampling was conducted in accordance with the Sampling and Analysis Plan (SAP) prepared by AECOM, dated June 2007. The SAP is comprised of the Field Sampling Plan (FSP), the Quality Assurance Project Plan (QAPP) and the Safe Work Plan (SWP). All field work was performed in Level D personal protection.

3.1 Water Level Survey

Prior to the start of sampling, water levels were measured in each well to provide a synoptic event. Water level measurements were recorded in the Field Notebook and on the Well Sampling Forms included in Appendix A. A summary of groundwater elevation measurements is provided in Table 2. Each location was photo-documented and a hand-held global positioning system (GPS) unit was used to record the coordinates. The groundwater elevation data are shown on Figure 3. As shown on the figure, the water table elevations are very similar across the entire study area with less than 1.0 ft of change from the highest recorded elevation to the lowest. The total depth of each of the eight wells also varies significantly from 49.3 to 265 ft. It appears that groundwater is flowing to the southeast. This is consistent with previous investigations performed by other consultants, which also determined that the general direction of groundwater flow at the Site was to the southeast.

3.2 Groundwater Sampling

Eight monitoring wells were identified for long term monitoring at the Site. The selected wells included MW-5, MW-6, MW-12, MW-14, MW-18, MW-19, MW-20 and MW-21. Well locations are shown on

Figure 2. NYSDEC Monitoring Well Field Inspection Forms were completed for each well and are included in Appendix B. Six wells were sampled in November. MW-12 and MW-14 could not be sampled during the November mobilization as rain resulted in street flooding along First Street preventing the field crew from opening the flushmount well caps. The crew returned to the Site in December to complete the sampling event.

AECOM used a Grundfos Redi-Flo2 submersible electric pump with polyethylene tubing to purge each monitoring well prior to sampling. Monitoring wells were purged of at least three casing volumes of water prior to sampling. Measurements of pH, specific conductance, temperature, dissolved oxygen, oxygen reduction potential, and turbidity were recorded on the Well Sampling Forms periodically during purging. Well sampling forms are included in Appendix A. Once the minimum volume of water had been evacuated, a dedicated Teflon bailer was used to collect a groundwater sample. The sample was transferred into laboratory supplied containers and stored in an ice-filled cooler. The samples were then transported to Mitkem Laboratory via UPS for overnight delivery. Proper chain-of-custody procedures and requirements were maintained throughout the sampling event in accordance with the QAPP.

4.0 SAMPLING RESULTS

The samples from monitoring wells MW-5, MW-6, MW-12, MW-14, MW-18, MW-19, MW-20, and MW-21 were labeled with the L- prefix to denote they were collected from the Liberty site. Groundwater samples were analyzed for target analyte list metals (TAL metals) using USEPA Method 6010/7470. The analyses were performed by Mitkem Laboratory of Warwick, Rhode Island, a NYSDOH ELAP certified laboratory (ELAP certification number 11522). Data validation was not performed. The Mitkem data summary packages are included in Appendix C. A table showing the full data set is also included in Appendix C. An AECOM chemist provided a limited review of the data packages. A summary of the detections is presented in Table 3. The exceedances are also shown on Figure 4.

Eight metals were detected above the Class GA criterion in monitoring wells at the Site during the three sampling events. These metals include antimony, cadmium, chromium, iron, manganese, lead, sodium and thallium.

Antimony was detected in six of eight monitoring wells during the June 2006 sampling event; of these, two samples exceeded the Class GA criterion of 3 µg/L (maximum concentration of 3.7 µg/L in MW-5). During the August 2007 sampling event, antimony was detected in five of eight samples, of which all five exceeded the criterion (maximum concentration of 11.2 µg/L in MW-12). During the November 2008 sampling event, antimony was detected in only one sample, MW-18, at a concentration of 9 µg/L, which exceeded the criterion.

During the June 2006 sampling event, cadmium was detected in six of eight samples but none of the concentrations exceeded the Class GA criterion of 5 µg/L. During the August 2007 sampling event, cadmium was detected in all eight sample, three of which exceeded the criterion (maximum concentration of 12.6 µg/L). During the November 2008 sampling event, cadmium was detected in six of eight samples, two of which (MW-12 and MW-14) exceeded the criterion (maximum concentration of 59.1 µg/L).

Chromium was detected in all eight samples during the June 2006 sampling event, one of which exceeded the Class GA criterion of 50 µg/L (95.8 µg/L at MW-14). During the August 2007 sampling event, chromium was again detected in all eight samples, one of which exceeded the criterion (248 µg/L at MW-14). During the November 2008 sampling event, chromium was detected in six of eight samples, one of which exceeded the criterion (69.6 µg/L at MW-14).

Iron was detected in all eight samples during the June 2006 and August 2007 sampling events. Three samples exceeded the criterion of 300 µg/L during the June 2006 sampling event (maximum concentration of 1,710 µg/L at MW-20). During the August 2007 sampling event, six samples exceeded the criterion (maximum concentration of 10,900 µg/L at MW-12). During the November 2008 sampling event, iron was detected in six of eight samples, three of which exceeded the criterion (maximum concentration of 9,320 µg/L at MW-14).

Manganese was detected in all eight samples during all three sampling events. There were no exceedances of the 300 µg/L criterion during the June 2006 sampling event. There was one exceedance of the criterion during the August 2007 sampling event, 547 µg/L at MW-18. There was one exceedance during the November 2008 sampling event, 627 µg/L at MW-21.

Lead was detected in four of eight samples during the June 2006 sampling event but none exceeded the criterion of 25 µg/L. Lead was detected in all eight August 2007 samples, one of which exceeded the criterion, 106 µg/L at MW-12. Lead was detected in four of eight samples during the November 2008 sampling event, of which two exceeded the criterion (maximum concentration of 221 µat MW-14).

Sodium was detected in all eight samples during all three sampling events. During the June 2006 sampling event, four samples exceeded the criterion of 20,000 µg/L (maximum concentration of 31,900 µg/L at MW-14). Four samples exceeded the criterion during the August 2007 sampling event (maximum concentration of 31,100 µg/L at MW-20). During the November 2008 sampling event, four samples exceeded the criterion (maximum concentration of 561,000 µg/L at MW-14).

Thallium was not detected in any of the eight samples collected during the June 2006 sampling event. Thallium was detected in two samples during the August 2007 sampling event, both of which exceeded the criterion of 0.5 µg/L (maximum concentration of 3.4 µg/L). Thallium was not detected in any of the eight samples collected during the November 2008 sampling event.

5.0 SUMMARY AND RECOMMENDATIONS FOR FUTURE SITE REMEDIATION ACTIVITIES

5.1 SUMMARY OF GROUNDWATER SAMPLING DATA

Based on a review of the data from the three sampling events, concentrations of antimony, cadmium, chromium, iron, lead, manganese, sodium and thallium were detected at concentrations above their Class GA criteria.

Iron, manganese and sodium are naturally occurring metals in groundwater on Long Island. The exceedances of these metals found in MW-12, MW-14, MW-18, MW-20, and MW-21 most likely represent background conditions and are not related to previous site activities. The sodium concentration from Round 3 at MW-14 (561,000 µg/L) appears to be anomalously high. The sodium concentrations in other wells sampled during the three sampling events range from about 5,000 µg/L to 32,000 µg/L with the second highest sodium concentration noted at MW-14 during Round 1 (31,900 µg/L).

Antimony was detected in all eight wells at least once during the three sampling events at concentrations ranging from 1.5 µg/L to 11.2 µg/L (Class GA criterion of 3 µg/L). However, the exceedances have been sporadic. At MW-6, the concentration exceeded the criterion during the fist and second events but was not detected during the third event. There does not appear to be a trend in exceedances for antimony at any of the eight monitoring wells.

Cadmium was detected in the majority of the samples collected during the three sampling events (20 out of 24 samples). However, there were only three exceedances in Round 2 and two exceedances in Round 3. There does not appear to be any trends in cadmium concentrations and only one well, MW-12, had two exceedances.

Chromium has been detected in the majority of samples (22 of 24 samples). However there were only three exceedances during the three sampling round, all at MW-14 with concentrations ranging from 69.6 µg/L to 248 µg/L.

Lead was detected in 16 of 24 samples collected at the Site during the three sampling events. However, there have only been three exceedances, two of which have occurred at MW-12 with concentrations: 106 µg/L during Round 2 and 83.7 µg/L during Round 3.

Thallium was only detected twice during the three sampling events. Both occurrences were above the criterion. There does not appear to be any trends in thallium concentrations at the Site.

5.2 RECOMMENDATIONS FOR FUTURE WORK

Exceedances of antimony are inconsistent between sampling events. During event 1 in June 2006, antimony was detected in six of the eight wells sampled but only exceeded the Class GA criterion of 3 µg/L in two monitoring wells. Antimony was detected in five of eight monitoring wells sampled during the August 2007 sampling event, all of which exceeded the criterion. During the November 2008 sampling event, only one sample exceeded the criterion. No well has exceeded the Class GA criterion during all three sampling events. Due to the inconsistencies in concentrations between events, it does not appear that antimony is a concern at the Site. AECOM recommends continued sampling to verify the concentrations. We also recommend that samples fro metals analyses be filtered to determine if antimony is present in the dissolved phase or is a result of suspended sediment in the samples.

Cadmium was detected above the Class GA criterion of 5 µg/L in three monitoring wells during the August 2007 sampling event and two wells during the November 2008 sampling event. Only one well, MW-12, has had two exceedances during the three sampling events. AECOM recommends the collection of another round of samples to verify the concentrations. As noted above, we also recommend the collection of both filtered and unfiltered samples to determine if the contamination is in the dissolved phase or is a result of suspended sediment in the samples.

Chromium exceeded the Class GA criterion of 50 µg/L in one monitoring well, MW-14, during all three sampling events. Chromium concentrations in the adjacent monitoring well MW-12 (screened approximately 50 ft higher in the aquifer) were below the Class GA criterion during all three sampling events. The next monitoring well downgradient from MW-14 screened at similar interval is MW-21. Chromium concentrations in MW-21 have been significantly below the Class GA criterion during all three sampling events. It appears that the chromium contamination is limited to MW-14 as evidenced by the concentrations noted in nearby monitoring wells MW-12, MW-20 and MW-21. As the chromium concentrations appear to be an isolated occurrence at MW-14, AECOM recommends continued sampling to determine if the contamination is migrating downgradient (MW-21) or to the deeper portions of the aquifer (MW-20).

Lead exceeded the Class GA criterion of 25 µg/L during the August 2007 and November 2008 sampling events at monitoring well MW-12; however, the concentration from the June 2006 sampling event was significantly below the criterion. As this appears to be an isolated occurrence, AECOM recommends continued sampling to verify the concentrations. We also recommend collecting both filtered and

unfiltered samples to determine if the contamination is in the dissolved phase or a result of suspended sediment in the sample.

Thallium was detected in two monitoring wells, MW-14 and MW-19 above the Class GA criterion of 0.5 µg/L during the August 2007 sampling event only. AECOM recommends continued sampling to verify the concentrations. As noted above, we also recommend the collection of both filtered and unfiltered samples to determine if the contamination is in the dissolved phase or is a result of suspended sediment in the samples.

This ends the long term monitoring assignment for AECOM at the Liberty Site.

TABLE 1
LIBERTY INDUSTRIAL FINISHING SITE (1-25-077)
WELL CONSTRUCTION DATA

Well Number	Northing	Easting	Ground Elevation	Top of Riser Elevation	Top of Casing Elevation	Total Depth of Well
MW-5	202,308.86	2,206,350.98	92.19	93.32	93.60	50.0
MW-6	202,306.77	2,206,341.15	92.09	92.71	92.79	265.0
MW-12	201,973.43	2,206,863.98		89.59	89.79	49.3
MW-14	201,966.33	2,206,866.03		89.55	89.77	100.0
MW-18	202,101.70	2,206,373.86		91.55	92.03	150.0
MW-19	202,102.30	2,206,386.65		91.98	92.19	248.0
MW-20	201,798.92	2,206,946.09		88.59	89.08	149.5
MW-21	201,798.35	2,206,950.31		88.66	89.15	110.5

All elevations and depths in feet
Field survey performed by YEC, Inc., on March 23, 2007
Vertical datum: NAVD 88, for NGVD 29, add 1.13 feet

TABLE 2
LIBERTY INDUSTRIAL FINISHING SITE (1-52-077)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation (ft, NGVD)	Total Depth of Well (ft)	Date	Depth To Water (ft)	Water Table Elevation (ft, NGVD)	Comments
MW-5	93.23	50.0	6/12/06	42.24	50.99	
			8/21/07	43.11	50.12	
			11/13/08	45.40	47.83	
MW-6	92.71	265.0	6/12/06	42.19	50.52	
			8/21/07	43.15	49.56	
			11/13/08	45.23	47.48	
MW-12	89.59	49.3	6/14/06	39.09	50.50	
			8/24/07	39.95	49.64	
			11/13/08	42.25	47.34	
			12/23/08	41.81	47.78	
MW-14	89.55	100.0	6/14/06	39.13	50.42	
			8/24/07	40.00	49.55	
			11/13/08	42.35	47.20	
			12/23/08	41.98	47.57	
MW-18	91.55	150.0	6/22/06	40.76	50.79	
			8/21/07	41.25	50.30	
			11/13/08	43.80	47.75	
MW-19	91.98	248.0	6/22/06	41.95	50.03	
			8/21/07	41.60	50.38	
			11/13/08	43.90	48.08	
MW-20	88.59	149.5	6/14/06	38.29	50.30	
			8/21/07	39.18	49.41	
			11/13/08	41.20	47.39	
MW-21	88.66	110.5	6/14/06	38.30	50.36	
			8/21/07	39.20	49.46	
			11/13/08	41.47	47.19	

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006, AUGUST 2007 AND NOVEMBER 2008 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-5		MW-5		MW-5		MW-6		MW-6		MW-6		MW-12		MW-12		MW-12	
Sample ID	Class GA	LMW-5		LMW-5		LMW-5		LMW-6		LMW-6		LMW-6		LMW-12		LMW-12		LMW-12	
Laboratory ID	Groundwater	E0833-01A		F1192-04A		G2136-07A		E0833-02A		F1192-09A		G2136-06A		E0833-03A		F1192-05A		G2415-01	
Sample Date	Criteria	6/12/06		8/23/07		11/14/08		6/12/06		8/24/07		11/14/08		6/14/06		8/24/07		12/23/08	
Matrix	water	water		water		water		water		water		water		water		water		water	
Units	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		conc.	Q	conc.	Q			conc.	Q	conc.	Q			conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	238		157	B	ND		ND		398		ND		445		9,070		2,260	
Antimony	3	***3.7***	B	ND		ND		***3.1***	B	***8.0***	***B***	ND		1.8	B	**11.2**	B	ND	
Arsenic	25	2.2	B	ND		ND		ND		ND		ND		ND		3.3	B	ND	
Barium	1,000	49.3	B	50	B	45.7	B	24.9	B	29.6	B	15.7	B	45.2	B	75.4	B	60.5	B
Beryllium	3	ND		ND		ND		ND		ND		ND		0.38	B	0.24	B	0.19	B
Cadmium	5	0.13	B	0.51	B	ND		ND		***12.6***		0.55	B	0.52	B	**5.6**		***25.5***	
Calcium	NC	19,000		15,000		16,900		9,880		10,000		8,300		13,100		26,900		19,700	
Chromium	50	18.2	B	42.2		7.3	B	0.79	B	28.7		ND		2.5	B	37.5		18.9	B
Cobalt	NC	0.67	B	1.4	B	ND		0.31	B	2.2	B	ND		0.63	B	5.5	B	2.6	B
Copper	200	23.8	B	10.9	B	ND		15.6	B	31.3		ND		14.9	B	85.3		63.5	
Iron	300	198	B	122	B	ND		45.2	B	***3,120***		147	B	***467***		**10,900**		***4,080***	
Lead	25	1.3	B	3.4	B	ND		ND		15.8		ND		7.7	B	**106**		***83.7***	
Magnesium	35,000	2,040	E	1,870		2040		2,980	E	2,630		2,590		3,710	E	6,830		4,330	
Manganese	300	15.1	B	13.7	B	6.8	B	5.9	B	60.9		40.8	B	77.3		96.9		82.7	
Mercury	0.7	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nickel	100	3.3	B	1.1	B	ND		3.6	B	12.3	B	2.2	B	3.4	B	12.4	B	14.9	B
Potassium	NC	4,330		4,500		4,380		759	B	1,390		2,060		2,280		2,700		2,540	
Selenium	10	ND		7.4	B	ND		1.6	B	ND		ND		2.6	B	ND		ND	
Silver	50	ND		4	B	ND		ND		ND		ND		ND		ND		7.6	B
Sodium	20,000	4,460		7,800		7,570		10,100		9,950		11,600		11,700		13,400		***27,100***	
Thallium	0.50	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	NC	ND		0.59	B	ND		ND		2	B	ND		0.77	B	28.8	B	8.6	B
Zinc	2,000	29.1	B	18.4	B	13.7	B	24.8	B	118		21.9	B	26.1	B	246		220	

Notes: NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
BOLD/Italics - Exceeds criterion
E - Estimated value due to interference

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006, AUGUST 2007 AND NOVEMBER 2008 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-14	MW-14	MW-14	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19
Sample ID	Class GA	LMW-14	LMW-14	LMW-14	LMW-18	LMW-18	LMW-18	LMW-19	LMW-19	LMW-19
Laboratory ID	Groundwater	E0833-04A	F1192-06A	G2415-02	E0868-14A	F1192-08A	G2136-02A	E0868-15A	F1192-07A	G2136-01A
Sample Date	Criteria	6/14/06	8/24/07	12/23/08	6/22/06	8/24/07	11/13/08	6/22/06	8/24/07	11/13/08
Matrix	water	water	water	water	water	water	water	water	water	water
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q		conc. Q	conc. Q	
Aluminum	NC	780	314	7,090	135 B	252	196 B	53.4 B	74.9 B	ND
Antimony	3	1.5 B	ND	ND	ND	ND	***9*** B	ND	***6.7 B***	ND
Arsenic	25	ND	ND	5.6 B	ND	ND	ND	ND	ND	ND
Barium	1,000	40.5 B	31.5 B	162 B	74.8 B	92.5 B	86.4 B	14.2 B	21.5 B	20 B
Beryllium	3	ND	ND	0.38 B	ND	ND	ND	ND	ND U	ND
Cadmium	5	4.9 B	1.5 B	***59.1***	0.33 B	1.3 B	0.92 B	1.1 B	***8***	ND
Calcium	NC	13,100	12,900	35,800	12,800	15,500	13,500	9,900	13,000	9,700
Chromium	50	***95.8***	***248***	***69.6***	3.3 B	2.1 B	5.4 B	1 B	2 B	ND
Cobalt	NC	2 B	1.2 B	5.1 B	0.48 B	1.3 B	ND	ND	1.2 B	ND
Copper	200	22.2 B	8.9 B	110	ND	8.1 B	11 B	ND	11.7 B	ND
Iron	300	***728***	***389***	***9,320***	212	***308***	***307***	54.2 B	221	ND
Lead	25	2.9 B	3.4 B	***221***	ND	3 B	2.5 B	ND	4.1 B	ND
Magnesium	35,000	1,610 E	3,000	6,340	5,440	5,430	4,960	3,180	4,600	3,970
Manganese	300	35.3 B	21.2 B	231	169	***547***	122	3.5 B	9.3 B	14.9 B
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	7.5 B	4.4 B	53.2	1.4 B	3.1 B	3.2 B	ND	2.9 B	ND
Potassium	NC	3,320	4,140	7,090	10,800	7,290	10,200	816 B	949 B	947 B
Selenium	10	ND	6.7 B	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	3.2 B	4.3 B	ND	4 B	1.6 B	ND	3.3 B	1.1 B
Sodium	20,000	***31,900***	***28,900***	**561,000**	***30,000***	***26,700***	***29,600***	10,200	14,400	13,400
Thallium	0.50	ND	***3.4 B***	ND	ND	ND	ND	ND	***2.9 B***	ND
Vanadium	NC	0.58 B	0.51 B	22.5 B	ND	0.66 B	ND	ND	ND	ND
Zinc	2,000	40.1 B	27.5 B	520	25 B	34.8 B	86.7	42.8 B	48.1 B	30.5 B

Notes: NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
BOLD/Italics - Exceeds criterion
E - Estimated value due to interference

TABLE 3
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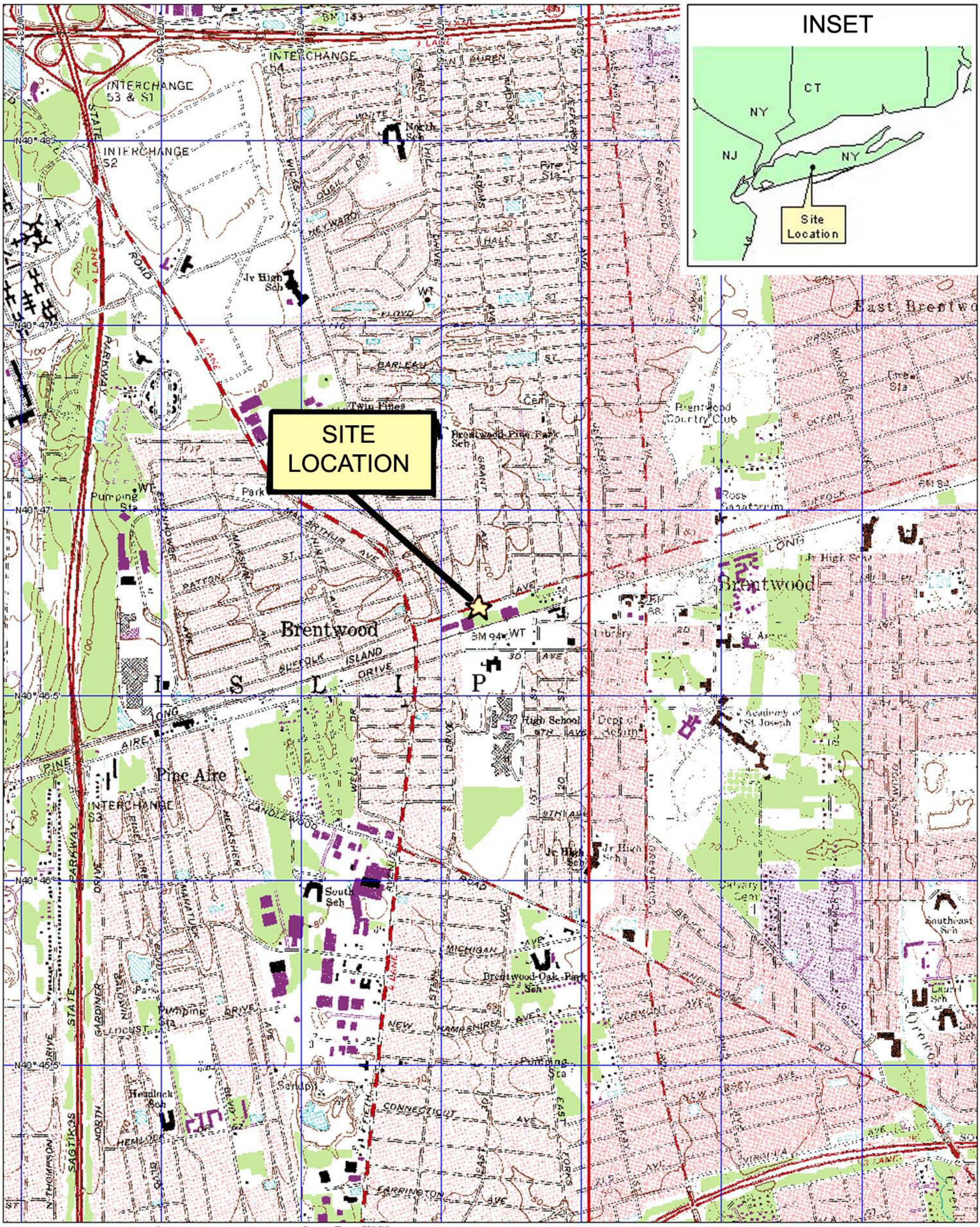
JUNE 2006, AUGUST 2007 AND NOVEMBER 2008 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-20		MW-20		MW-20	MW-21		MW-21		MW-21
Sample ID	Class GA	LMW-20		LMW-20		LMW-20	LMW-21		LMW-21		LMW-21
Laboratory ID	Groundwater	E0833-05A		F1192-03A		G2136-04A	E0833-06A		F1192-01A		G2136-05A
Sample Date	Criteria	6/14/06		8/22/07		11/13/08	6/14/06		8/22/07		11/14/08
Matrix	water	water		water		water	water		water		water
Units	µg/L	µg/L		µg/L		µg/L	µg/L		µg/L		µg/L
		conc.	Q	conc.	Q		conc.	Q	conc.	Q	
Aluminum	NC	223		299		81.6	ND		197	B	457
Antimony	3	1.7	B	***9.5***	***B***	ND	1.9	B	***6.7***	***B***	ND
Arsenic	25	ND		ND		ND	2.2	B	ND		ND
Barium	1,000	38.9	B	57.8	B	48.8	79.3	B	60.9	B	58.2 B
Beryllium	3	ND		ND		ND	ND		ND		ND
Cadmium	5	1	B	0.45	B	0.74	ND		1.5	B	4.8 B
Calcium	NC	13,200		20,600		4,420	7,520		5,190		11,900
Chromium	50	4.6	B	3.1	B	2.1	0.94	B	3	B	2.3 B
Cobalt	NC	0.92	B	2.5	B	ND	0.48	B	1.5	B	ND
Copper	200	13.6	B	8.7	B	ND	ND		13.7	B	6.6 B
Iron	300	***1,710***		***624***		164	31.4	B	***503***		198 B
Lead	25	1.5	B	3.7	B	ND	ND		4.5	B	2.6 B
Magnesium	35,000	6,050	E	9,820		3,400	5,440	E	3,320		2,960
Manganese	300	27.8	B	60.5		35	26.4	B	51.8		***627***
Mercury	0.7	ND		ND		ND	ND		ND		ND
Nickel	100	4.6	B	2.4	B	1.8	1.9	B	2.4	B	6.9 B
Potassium	NC	2,050		2,220		8,190	5,670		6,350		6,250
Selenium	10	1.1	B	ND		ND	4.1	B	ND		ND
Silver	50	ND		5.2	B	0.6	ND		ND		ND
Sodium	20,000	***21,800***		***31,100***		***29,700***	***24,500***		***27,200***		19,200
Thallium	0.50	ND		ND		ND	ND		ND		ND
Vanadium	NC	0.48	B	1.6	B	ND	ND		0.063	B	ND
Zinc	2,000	48.7	B	32.8	B	28.5	14.2	B	40.5	B	69.1

Notes: NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
BOLD/Italics - Exceeds criterion
E - Estimated value due to interference



Scale 1:25,000

750 FT

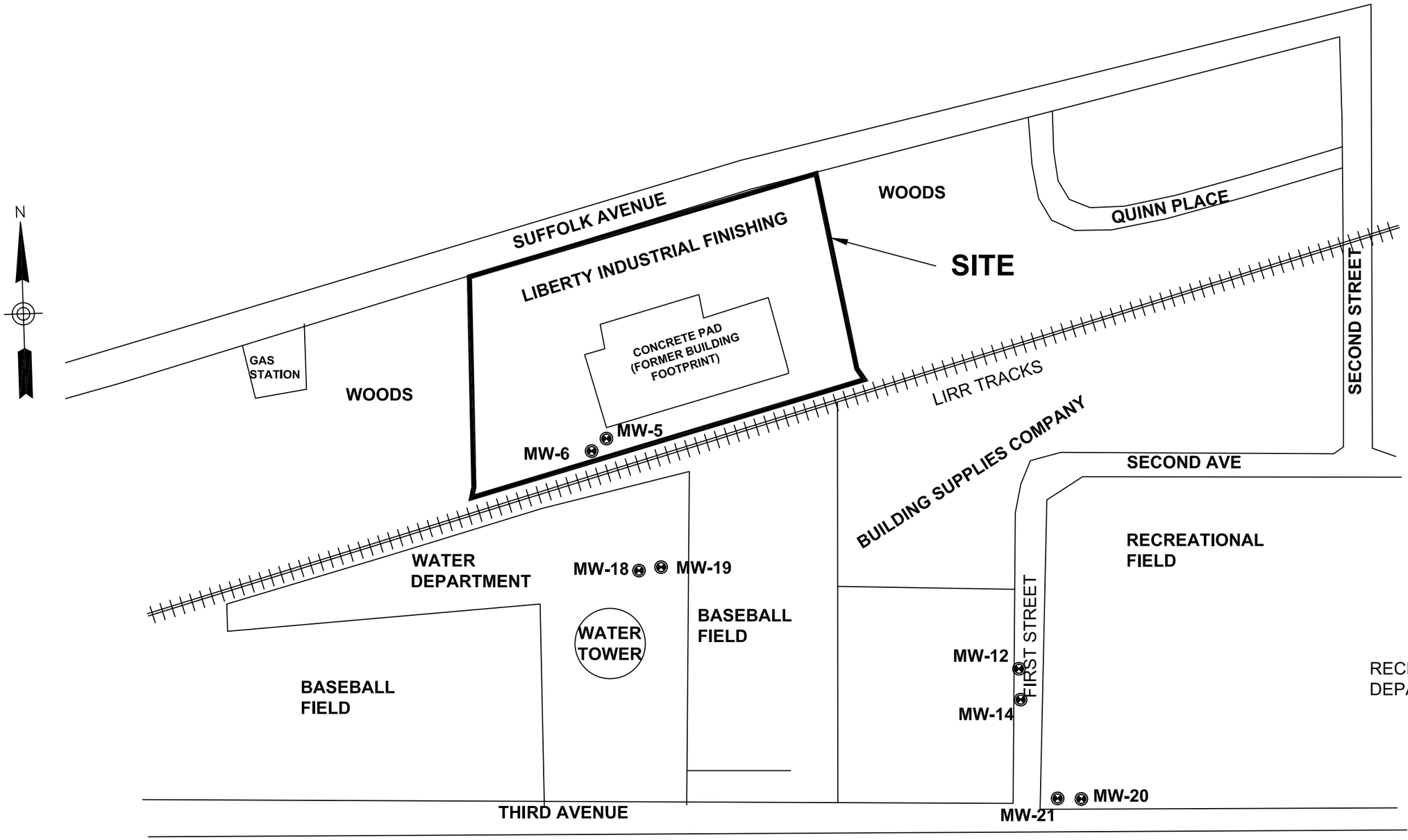
N

Figure 1 - Site Location

SOURCE:
Delorme 3-D TopoQuads
Greenlawn, NY
New York
7.5 Minute Series, 1979

LIBERTY INDUSTRIAL FINISHING
SITE #1-52-108
MULTI SITE G
500 SUFFOLK AVE
BRENTWOOD, NY

EARTH TECH



LEGEND:

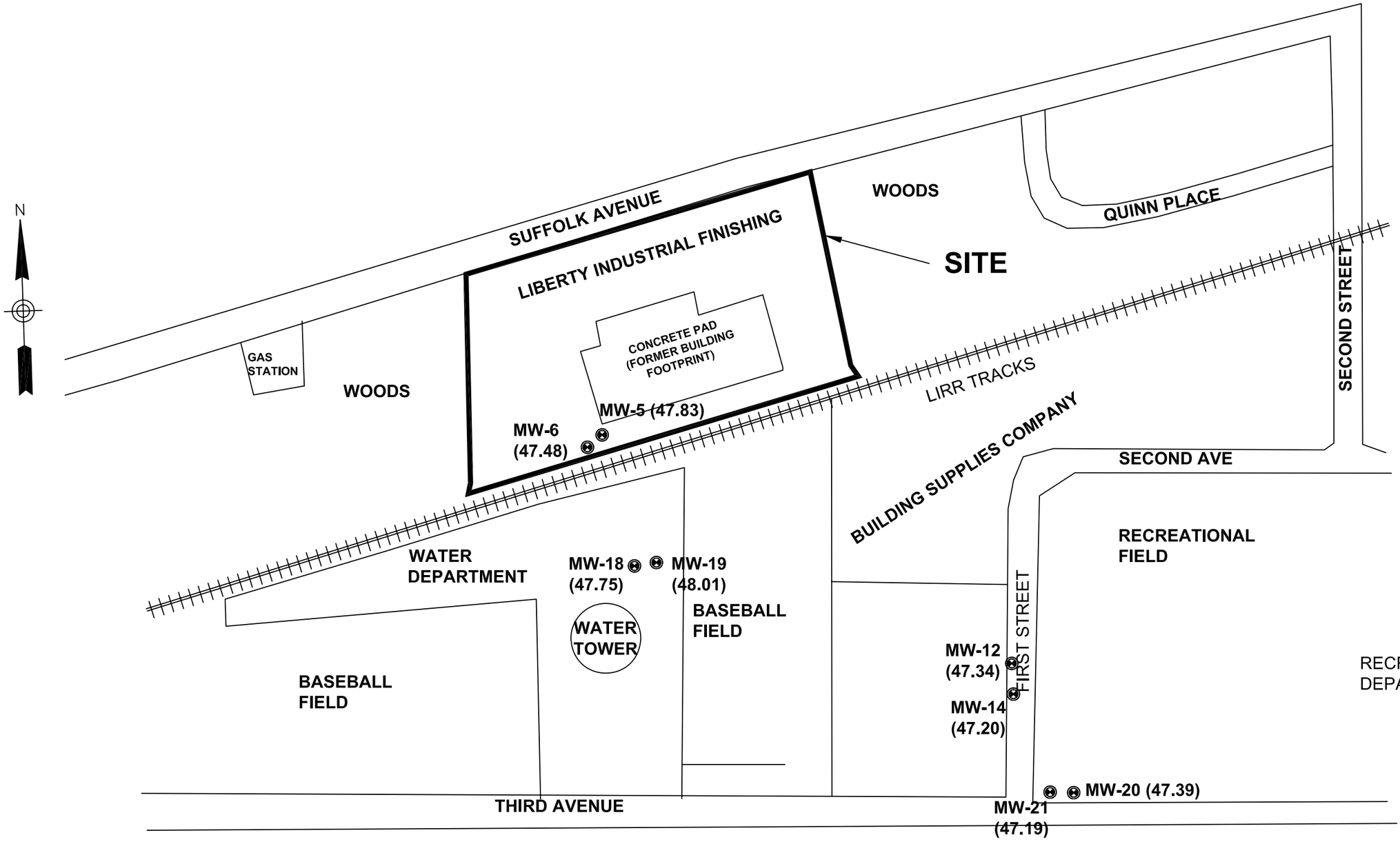
MW-14 — EXISTING MONITORING WELLS

GRAPHIC SCALE

0 150 300 450

Prepared by : EARTH TECH

SUBMITTED BY : PK	MULTI SITE G - LIBERTY INDUSTRIAL SITE SITE NO. 1-52-077		
DRAWN BY : VM	**SITE PLAN**		
APPROVED BY : PK	DATE : FEBRUARY 2009	SCALE : AS SHOWN	DRAWING NO. : 2



LEGEND:

MW-14 — EXISTING MONITORING WELLS

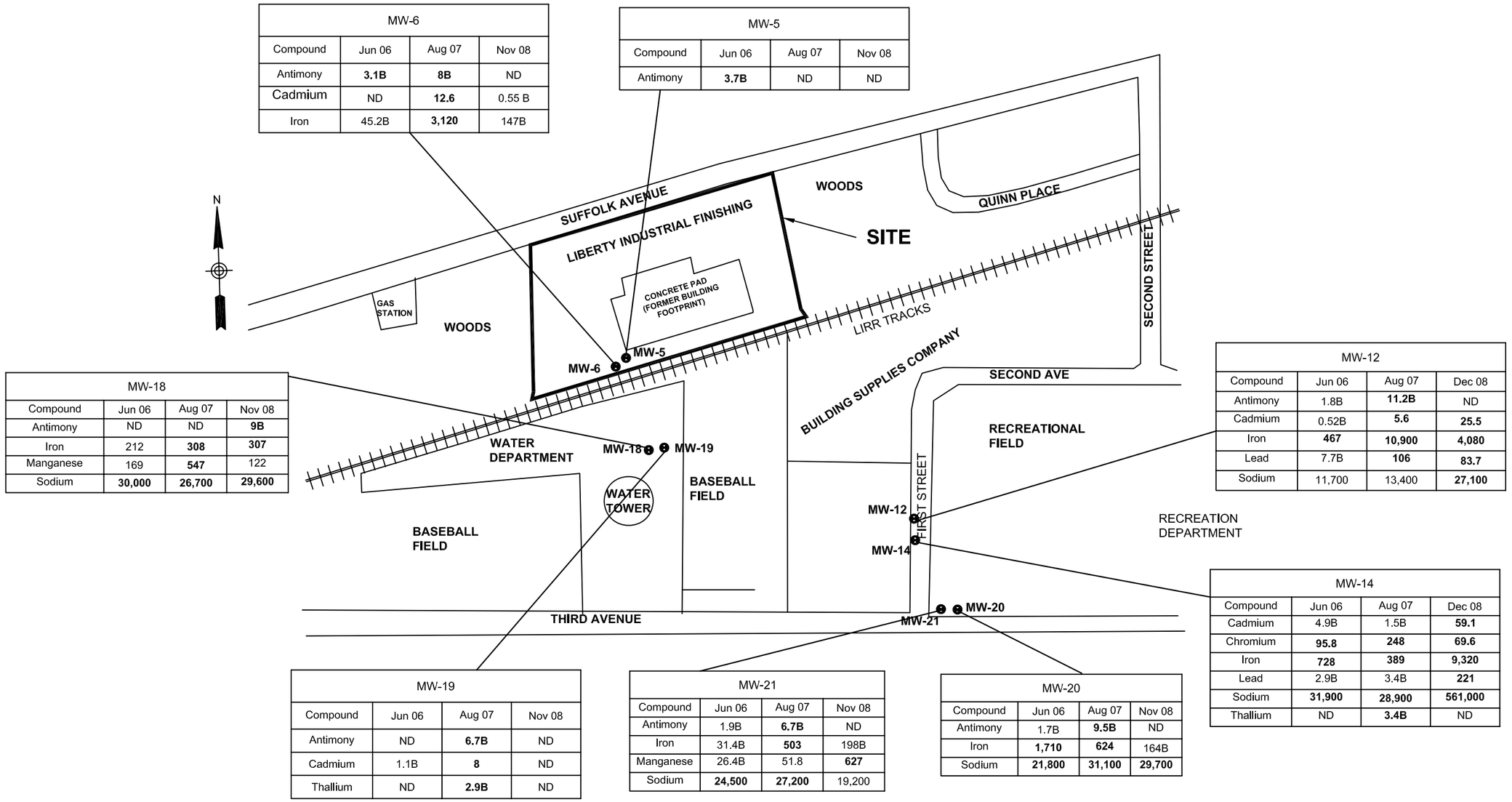
(53.9) — GROUNDWATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

GRAPHIC SCALE

0 150 300 450

Prepared by : EARTH TECH

SUBMITTED BY : PK	MULTI SITE G - LIBERTY INDUSTRIAL SITE SITE NO. 1-52-077
DRAWN BY : VM	**GROUNDWATER ELEVATION MAP NOVEMBER 13, 2008**
APPROVED BY : PK	DATE : FEBRUARY 2009 / SCALE : AS SHOWN / DRAWING NO. : 3



MW-6			
Compound	Jun 06	Aug 07	Nov 08
Antimony	**3.1B**	**8B**	ND
Cadmium	ND	**12.6**	0.55 B
Iron	45.2B	**3,120**	147B

MW-5			
Compound	Jun 06	Aug 07	Nov 08
Antimony	**3.7B**	ND	ND

MW-18			
Compound	Jun 06	Aug 07	Nov 08
Antimony	ND	ND	**9B**
Iron	212	**308**	**307**
Manganese	169	**547**	122
Sodium	**30,000**	**26,700**	**29,600**

MW-12			
Compound	Jun 06	Aug 07	Dec 08
Antimony	1.8B	**11.2B**	ND
Cadmium	0.52B	**5.6**	**25.5**
Iron	**467**	**10,900**	**4,080**
Lead	7.7B	**106**	**83.7**
Sodium	11,700	13,400	**27,100**

MW-14			
Compound	Jun 06	Aug 07	Dec 08
Cadmium	4.9B	1.5B	**59.1**
Chromium	**95.8**	**248**	**69.6**
Iron	**728**	**389**	**9,320**
Lead	2.9B	3.4B	**221**
Sodium	**31,900**	**28,900**	**561,000**
Thallium	ND	**3.4B**	ND

MW-19			
Compound	Jun 06	Aug 07	Nov 08
Antimony	ND	**6.7B**	ND
Cadmium	1.1B	**8**	ND
Thallium	ND	**2.9B**	ND

MW-21			
Compound	Jun 06	Aug 07	Nov 08
Antimony	1.9B	**6.7B**	ND
Iron	31.4B	**503**	198B
Manganese	26.4B	51.8	**627**
Sodium	**24,500**	**27,200**	19,200

MW-20			
Compound	Jun 06	Aug 07	Nov 08
Antimony	1.7B	**9.5B**	ND
Iron	**1,710**	**624**	164B
Sodium	**21,800**	**31,100**	**29,700**

LEGEND:

MW-14 EXISTING MONITORING WELLS

NOTE:
All concentraitons are shown as micrograms per liter (ug/L)
BOLD indicates the concentration exceeded the NYSDEC Class GA criterion

GRAPHIC SCALE

0 200 400 600

Prepared by : EARTH TECH

SUBMITTED BY : PK

DRAWN BY : VM

APPROVED BY : PK

MULTI SITE G - LIBERTY INDUSTRIAL SITE
SITE NO. 1-52-077

SUMMARY OF TAL METALS IN GROUNDWATER

DATE : FEBRUARY 2009

SCALE : AS SHOWN

DRAWING NO. : 4

APPENDIX A

WELL SAMPLING FORMS

Earth Tech | AECOM

WELL NO. MW- 5

WELL SAMPLING FORM	PROJECT: Multi Site G	PROJECT No.: 95900	SHEET: 1 OF 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY # 1-52-108		DATE WELL STARTED: 11/14/08	DATE WELL COMPLETED: 11/14/08
CLIENT: New York State Department of Environmental Protection		NAME OF INSPECTOR: SC / MA	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 3.0 Gallons WELL TD: 50 ft PUMP INTAKE DEPTH: 48 ft

Time	Depth to Water (ft)	Purge Rate (gpm)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
	45.4								Static Water Level
11:50	45.4	1	14.44	190	8.47	5.76	157	28	Pump on
11:55	45.45	1	14.08	181	7.27	5.75	161	8.6	
12:00	45.45	1	13.53	175	7.56	5.74	177	0	
12:05	45.48	1	13.52	177	7.66	5.73	181	0	Purged approximately 15 gals.
12:10									Collect sample LMW-5

Pump Type: Grundfos pump with poly tubing

Analytical Parameters: TAL Metals

Earth Tech | AECOM

WELL NO. MW- 6

WELL SAMPLING FORM	PROJECT: Multi Site G	PROJECT No.: 95900	SHEET: 1 OF 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY # 1-52-108		DATE WELL STARTED: 11/14/08	DATE WELL COMPLETED: 11/14/08
CLIENT: New York State Department of Environmental Protection		NAME OF INSPECTOR: SC / MA	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 143.0 Gallons WELL TD: 265 ft PUMP INTAKE DEPTH: 100 ft

Time	Depth to Water (ft)	Purge Rate (gpm)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
	45.2								Static water level
8:35			12.72	155	1.7	6.13	136	2	Pump on
8:40	55.3	2.5	13.1	155	0.39	6.2	136	2	
8:50	67.2	2.5	13.25	154	0.54	6.18	134	1.4	
9:00	71.8	2.5	13	154	0.39	6.13	135	1.5	
9:10	73.8	2.5	12.82	154	1.9	6.09	136	0.8	
9:20	75.2	2.5	12.72	153	0.18	6.06	138	0.5	
9:30	75.94	2.5	12.59	153	0.16	6.01	141	0.4	
9:40	76.1	2.5							
9:50	76.78	2.5	12.26	111	3.9	5.46	128	6.4	
10:00	77.52	2.5	12.22	100	5.32	5.96	97	6.4	
10:20	77.4	3	12.19	86	6.26	5.97	93	4.6	
10:30	82	3	12.25	89	5.96	5.96	98	3.4	
10:40	84.1	3	12.16	84	7.02	5.96	107	2.7	
10:50	84.8	3	12.13	81	7.56	5.95	113	2.2	
11:00	85.4	3	12.1	78	7.68	5.95	121	1.7	
11:10	85.48	3	12.15	76	7.77	5.95	126	1.5	
11:15	85.85	3	12.09	75	7.8	5.95	128	1.6	Purged approx 430 gallon
11:20									Collect sample LMW-6

Pump Type: Grundfos pump with poly tubing

Analytical Parameters: TAL Metals

Earth Tech | AECOM

WELL NO. MW- 12

WELL SAMPLING FORM	PROJECT: Multi Site G	PROJECT No.: 95900	SHEET: 1 OF SHEETS: 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY # 1-52-108		DATE WELL STARTED: 12/23/08	DATE WELL COMPLETED: 12/23/08
CLIENT: New York State Department of Environmental Protection		NAME OF INSPECTOR: SC / MA	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 1.3 Gallons WELL TD: 49.3 ft PUMP INTAKE DEPTH: 47 ft

Time	Depth to Water (ft)	Purge Rate (gpm)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
10:00	41.81								Static water level
10:07	41.81		10.75	763	4.8	6.56	-26	300	Pump on
10:10	42.39		12.45	768	4.35	5.49	-29	200	
10:15	42.39		12.75	284	7.68	6.1	-17	150	
10:20	42.34		15.18	227	7.09	5.98	-1	140	
									Purged approx 8 gallons
10:25									Collect sample LMW-12

Pump Type: Grundfos pump with poly tubing

Analytical Parameters: TAL Metals

Earth Tech | AECOM

WELL NO. MW- 14

WELL SAMPLING FORM	PROJECT: Multi Site G	PROJECT No.: 95900	SHEET: 1 OF 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY # 1-52-108		DATE WELL STARTED: 12/23/08	DATE WELL COMPLETED: 12/23/08
CLIENT: New York State Department of Environmental Protection		NAME OF INSPECTOR: SC / MA	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 9.5 Gallons WELL TD: 100 ft PUMP INTAKE DEPTH: 50 ft

Time	Depth to Water (ft)	Purge Rate (gpm)	FIELD MEASUREMENTS: Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	REMARKS
11:00	41.98								Static water level
11:15	42		12.8	3372	6.81	6.16	12..9	10.9	Pump on
11:20	42.17	0.55	14.68	3646	1.26	6.5	3	970	
11:25	42.17		14.71	3637	2.55	6.64	6	840	
11:30	42.17		13.74	2640	5.05	6.37	2.7	790	
11:40	42.17		13.6	821	5.97	5.97	85	741	
11:50	42.17		13.36	692	5.84	5.84	117	800	
12:00	42.17		13.58	296	5.79	5.79	137	790	
12:10	42.17		13.32	526	5.78	5.78	142	812	
									Purged approximately 30 gallons
12:20									Sample MW-14 collected at 12:20
									Turbidity towards the end seems
									< 100 NTU
									The turbidity meter shows incorrect
									reading
									Sample could not be collected in
									November, since the well was under
									water

Pump Type: Grundfos pump with poly tubing

Analytical Parameters: TAL Metals

Earth Tech | AECOM

WELL NO. MW- 18

WELL SAMPLING FORM	PROJECT: Multi Site G	PROJECT No.: 95900	SHEET: 1 OF 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY # 1-52-108		DATE WELL STARTED: 11/13/08	DATE WELL COMPLETED: 11/13/08
CLIENT: New York State Department of Environmental Protection		NAME OF INSPECTOR: SC / MA	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 17.1 Gallons WELL TD: 150 ft PUMP INTAKE DEPTH: 50 ft

Time	Depth to Water (ft)	Purge Rate (gpm)	FIELD MEASUREMENTS: Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	REMARKS
	43.8								Static Water Level
12:40	43.8	2.5	12.65	244	5.93	5.58	199	0	Pump on
12:50	44.3		12.7	291	4.8	5.35	216	0	
13:00	44.3		12.74	300	4.3	5.3	232	0	
									Purged approximately 55 gallons
13:10									Collect sample LMW-18
									Duplicate MW-68 at 13:15

Pump Type: Grundfos pump with poly tubing

Analytical Parameters: TAL Metals

Earth Tech | AECOM

WELL NO. MW- 19

WELL SAMPLING FORM	PROJECT: Multi Site G	PROJECT No.: 95900	SHEET: 1 OF 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY # 1-52-108		DATE WELL STARTED: 11/13/08	DATE WELL COMPLETED: 11/13/08
CLIENT: New York State Department of Environmental Protection		NAME OF INSPECTOR: SC / MA	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 133 Gallons WELL TD: 248 ft PUMP INTAKE DEPTH: 55 ft

Time	Depth to Water (ft)	Purge Rate (gpm)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
	43.9								Static Water level
9:50	43.9	3.5	15.5	157	8.34	6.42	92	119	Pump started
10:00	45.4	3.5	14.9	154	6.2	5.79	137	0	Purged approximately 400 gallons
10:10	46.18	3.5	12.83	146	4.77	5.68	165	0	
10:20	46.2	3.5	12.74	145	4.47	5.67	175	0	
10:30	46.25	3.5	12.65	144	4.75	5.66	180	0	
10:40	46.25	3.5	12.14	165	5.08	5.64	193	0	
10:50	46.30	3.5	11.97	187	5.66	5.62	199	0	
11:00	46.25	3.5	11.93	190	5.89	5.62	205	0	
11:10	46.25	3.5	11.92	189	5.9	5.62	209	0	
11:20	46.25	3.5	11.88	191	5.99	5.62	210	0	
11:30	46.25	3.5	11.89	192	5.69	5.62	213	0	
11:40	46.25	3.5	11.86	192	5.83	5.62	217	0	
11:50	46.25	3.5	11.87	191	5.85	5.62	219	0	
11:55									Collect sample LMW-19 at 11:55
									MS/MSD

Pump Type: Grundfos pump with poly tubing

Analytical Parameters: TAL Metals

Earth Tech | AECOM

WELL NO. MW- 20

WELL SAMPLING FORM	PROJECT: Multi Site G	PROJECT No.: 95900	SHEET: 1 OF SHEETS: 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY # 1-52-108		DATE WELL STARTED: 11/13/08	DATE WELL COMPLETED: 11/13/08
CLIENT: New York State Department of Environmental Protection		NAME OF INSPECTOR: SC / MA	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 17.7 Gallons WELL TD: 149.5 ft PUMP INTAKE DEPTH: 48 ft

Time	Depth to Water (ft)	Purge Rate (gpm)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
	41.2								Static Water Level
17:00		2.5	14.06	204	10.39	5.94	135	0	Pump on
17:10		2.5	13.15	203	10.36	5.44	185	0	
17:20		2.5	13.41	203	10.47	5.92	213	0	
									Purged approx. 55 gal
17:30									Collect sample LMW-20

Pump Type: Grundfos pump with poly tubing

Analytical Parameters: TAL Metals

Earth Tech | AECOM

WELL NO. MW- 21

WELL SAMPLING FORM	PROJECT: Multi Site G	PROJECT No.: 95900	SHEET: 1 OF 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY # 1-52-108		DATE WELL STARTED: 11/14/08	DATE WELL COMPLETED: 11/14/08
CLIENT: New York State Department of Environmental Protection		NAME OF INSPECTOR: SC / MA	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 11.2 Gallons WELL TD: 110.5 ft PUMP INTAKE DEPTH: 48 ft

Time	Depth to Water (ft)	Purge Rate (gpm)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
6:40	41.44								Static Water Level
6:55		2	14.49	181	9.13	6.24	113	2	Pump on
7:05			13.6	243	8.43	5.4	164	0	
7:15			13.6	242	9.3	5.39	193	0	Purged approximately 35 gals
7:25									Collect sample LMW-21

Pump Type: Grundfos pump with poly tubing

Analytical Parameters: TAL Metals

APPENDIX B

NYSDEC MONITORING WELL FIELD INSPECTION LOGS

SITE NAME: **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: MA/SC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/14/08 -
WEll ID.: LMW-5

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 2,206,350.98 NYTM Y 202,308.86 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	2.0 FT
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	8"

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	50
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	45.4
MEASURE WELL DIAMETER (Inches):	4
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	-
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Overgrown vegetation, accessible by truck mounted rig.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
located in a field surrounded by overgrown vegetation

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Gas station to the east of the Site.

REMARKS:
Needs lock and new well cap

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: MA/SC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/14/08
WEll ID.: LMW-6

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 2,206,341.15 NYTM Y 202,306.77 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	8"
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	8

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)	X	
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	265
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	45.21
MEASURE WELL DIAMETER (Inches):	4
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	Average
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	-
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Overgrown vegetation, accessible by truck mounted rig.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
located in a field surrounded by overgrown vegetation

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Gas station to the east of the Site.

REMARKS:
Needs new well cap and lock.

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: MA/SC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/13/08
WEll ID.: LMW-12

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 2,206,863.98 NYTM Y 201,973.43 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	NA
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	8

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	49.30
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	42.25
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	-
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Accessible by truck mounted rig

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Located on the sidewalk along First Street on the corner of parking lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:
Well was under water due to rain. Well could not be sampled

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: MA/SC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/13/08
WEll ID.: LMW-14

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 2,206,866.03 NYTM Y 201,966.33 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)		

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	NA
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	100
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	42.35
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	-
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Accessible by truck mounted rig

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Located on the sidewalk along First Street on the corner of parking lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:
Well was under water due to rain. Well could not be sampled

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: MA/SC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/13/08
WEll ID.: LMW-18

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 2,206,373.86 NYTM Y 202,101.70 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)		X

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	NA
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	150
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	43.8
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	-
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Not accessible by truck mounted rig due to partly opening fence gate, trees and not enough turning radius for truck

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Located in the grassy area behind the water tower second fence to the south of water tower

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:
Location shown in workplan is wrong, swap MW-18 location with MW-19 location. Well surveyed and location corrected

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: MA/SC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/13/08
WEll ID.: LMW-19

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 2,206,386.65 NYTM Y 202,102.30 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)		

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	NA
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	12

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	248
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	43.9
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	-
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Not accessible by truck mounted rig due to partly opening fence gate, trees and not enough turning radius for truck

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Located in the grassy area behind the water tower second fence to the south of water tower

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:
Location shown in workplan is wrong, swap MW-18 location with MW-19 location. Well surveyed and location corrected

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: MA/SC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/13/08
WEll ID.: LMW-20

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 2,206,946.09 NYTM Y 201,798.92 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)		

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0.0 PIF
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	NA
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	149.5
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	41.2
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	-
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:

MONITORING WELL INSPECTION LOG

SKETCH

SITE NAME: **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: MA/SC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 11/14/08
WEll ID.: LMW-21

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	0.0 PIF
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	NA
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	110.5
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	41.44
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	-
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:
I nut missing from the well cap

MONITORING WELL INSPECTION LOG

SKETCH

APPENDIX C

LABORATORY DATA SUMMARY PACKAGE (FORM 1S)

APPENDIX C, TABLE 1
LIBERTY INDUSTRIAL FINISHING (SITE # 1-52-108)
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-5		MW-6		MW-12		MW-14		MW-18		MW-19	
Sample ID	Class GA	LMW-5		LMW-6		LMW-12		LMW-14		LMW-18		LMW-19	
Laboratory ID	Groundwater	G2136-07A		G2136-06A		G2415-01		G2415-02		G2136-02		G2136-01	
Sample Date	Criteria	11/14/08		11/14/08		12/23/08		12/23/08		11/13/08		11/13/08	
Matrix	water	water		water		water		water		water		water	
Units	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
Aluminum	NC	56	U	56	U	2,260		7,090		196	B	56	U
Antimony	3	4.6	U	4.6	U	4.6	U	4.6	U	**9**	**B**	4.6	U
Arsenic	25	5.3	U	5.3	U	5.3	U	5.6	B	5.3	U	5.3	U
Barium	1,000	45.7	B	15.7	B	60.5	B	162	B	86.4	B	20	B
Beryllium	3	0.13	U	0.13	U	0.19	B	0.38	B	0.13	U	0.13	U
Cadmium	5	0.14	U	0.55	B	**25.5**		**59.1**		0.92	B	0.14	U
Calcium	NC	16,900		8,300		19,700		35,800		13,500		9,700	
Chromium	50	7.3	B	1.1	U	18.9	B	**69.6**		5.4	B	1.1	U
Cobalt	NC	1.2	U	1.2	U	2.6	B	5.1	B	1.2	U	1.2	U
Copper	200	5	U	5	U	63.5		110		11	B	5	U
Iron	300	61	U	147	B	**4,080**		**9,320**		**307**		61	U
Lead	25	2.2	U	2.2	U	**83.7**		**221**		2.5	B	2.2	U
Magnesium	35,000	2,040		2,590		4,330		6,340		4,960		3,970	
Manganese	300	6.8	B	40.8	B	82.7		231		122		14.9	B
Mercury	0.7	0.016	U	0.016	U	0.016	U	0.016	U	0.016	U	0.016	U
Nickel	100	1.5	U	2.2	B	14.9	B	53.2		3.2	B	1.5	U
Potassium	NC	4,380		2,060		2,540		7,090		10,200		947	B
Selenium	10	6.6	U	6.6	U	6.6	U	6.6	U	6.6	U	6.6	U
Silver	50	0.59	U	0.59	U	7.6	B	4.3	B	1.6	B	1.1	B
Sodium	20,000	7,570		11,600		**27,100**		**561,000**		**29,600**		13,400	
Thallium	0.50	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U
Vanadium	NC	0.96	U	0.96	U	8.6	B	22.5	B	0.96	U	0.96	U
Zinc	2,000	13.7	B	21.9	B	220		520		86.7		30.5	B

U - Not detected
B - Estimated value

APPENDIX C, TABLE 1
LIBERTY INDUSTRIAL FINISHING (SITE # 1-52-108)
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-20		MW-21	
Sample ID	Class GA	LMW-20		LMW-21	
Laboratory ID	Groundwater	G2136-04		G2136-05	
Sample Date	Criteria	11/13/08		11/14/08	
Matrix	water	water		water	
Units	µg/L	µg/L		µg/L	
		Conc.	Q	Conc.	Q
Aluminum	NC	81.6	B	457	
Antimony	3	4.6	U	4.6	U
Arsenic	25	5.3	U	5.3	U
Barium	1,000	48.8	B	58.2	B
Beryllium	3	0.13	U	0.13	U
Cadmium	5	0.74	B	4.8	B
Calcium	NC	4,420		11,900	
Chromium	50	2.1	B	2.3	B
Cobalt	NC	1.2	U	1.2	U
Copper	200	5	U	6.6	B
Iron	300	164	B	198	B
Lead	25	2.2	U	2.6	B
Magnesium	35,000	3,400		2,960	
Manganese	300	35	B	**627**	
Mercury	0.7	0.016	U	0.016	U
Nickel	100	1.8	B	6.9	B
Potassium	NC	8,190		6,250	
Selenium	10	6.6	U	6.6	U
Silver	50	0.6	B	0.59	U
Sodium	20,000	**29,700**		19,200	
Thallium	0.50	4.2	U	4.2	U
Vanadium	NC	0.96	U	0.96	U
Zinc	2,000	28.5	B	69.1	

U - Not detected
B - Estimated value

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

December 17, 2008

Earth Tech – AECOM
300 Broadacres Drive
Bloomfield, NJ 07003
Attn: Mr. Paul Kareth

RE: Client Project: Multi Site G—Liberty, DZUS
Lab Work Order #: G2136

Dear Mr. Kareth:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

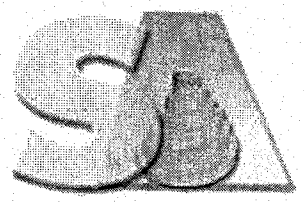
We appreciate your business.

Sincerely,

Shirley Ng

Shirley Ng
Project Manager

MITKEM
LABORATORIES



* Data Summary Pack *

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Multi Site G – Liberty, DZUS **SDG :** G2136

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
LMW-19	G2136-01				SW6010_W	
LMW-19	G2136-01				SW7470	
LMW-18	G2136-02				SW6010_W	
LMW-18	G2136-02				SW7470	
LMW-68	G2136-03				SW6010_W	
LMW-68	G2136-03				SW7470	
LMW-20	G2136-04				SW6010_W	
LMW-20	G2136-04				SW7470	
LMW-21	G2136-05				SW6010_W	
LMW-21	G2136-05				SW7470	
LMW-6	G2136-06				SW6010_W	
LMW-6	G2136-06				SW7470	
LMW-5	G2136-07				SW6010_W	
LMW-5	G2136-07				SW7470	
SED-2	G2136-08				SW6010_S	
SED-2	G2136-08				SW7471	
SW-2	G2136-09				SW6010_W	
SW-2	G2136-09				SW7470	
SED-1	G2136-10				SW6010_S	
SED-1	G2136-10				SW7471	
SW-1	G2136-11				SW6010_W	
SW-1	G2136-11				SW7470	
SW-51	G2136-12				SW6010_W	
SW-51	G2136-12				SW7470	
SW-3	G2136-13				SW6010_W	
SW-3	G2136-13				SW7470	
SED-3	G2136-14				SW6010_S	
SED-3	G2136-14				SW7471	
SW-4	G2136-15				SW6010_W	
SW-4	G2136-15				SW7470	
SED-4	G2136-16				SW6010_S	
SED-4	G2136-16				SW7471	
FB 111408	G2136-17				SW6010_W	
FB 111408	G2136-17				SW7470	

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : Multi Site G -- Liberty, DZUS **SDG :** G2136

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_S				
G2136-08A	SL	SW6010_S	11/15/2008	12/4/2008
G2136-10A	SL	SW6010_S	11/15/2008	12/4/2008
G2136-14A	SL	SW6010_S	11/15/2008	12/4/2008
G2136-16A	SL	SW6010_S	11/15/2008	12/4/2008
G2136-16ADUP	SL	SW6010_S	11/15/2008	12/4/2008
G2136-16AMS	SL	SW6010_S	11/15/2008	12/4/2008
SW6010_W				
G2136-01A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-01ADUP	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-01AMS	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-02A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-03A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-04A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-05A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-06A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-07A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-09A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-11A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-11ADUP	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-11AMS	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-12A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-13A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-15A	AQ	SW6010_W	11/15/2008	12/4/2008
G2136-17A	AQ	SW6010_W	11/15/2008	12/4/2008
SW7470				
G2136-01A	AQ	SW7470	11/15/2008	12/4/2008
G2136-01ADUP	AQ	SW7470	11/15/2008	12/4/2008
G2136-01AMS	AQ	SW7470	11/15/2008	12/4/2008
G2136-02A	AQ	SW7470	11/15/2008	12/4/2008
G2136-03A	AQ	SW7470	11/15/2008	12/4/2008
G2136-04A	AQ	SW7470	11/15/2008	12/4/2008
G2136-05A	AQ	SW7470	11/15/2008	12/4/2008
G2136-06A	AQ	SW7470	11/15/2008	12/4/2008
G2136-07A	AQ	SW7470	11/15/2008	12/4/2008
G2136-09A	AQ	SW7470	11/15/2008	12/4/2008
G2136-11A	AQ	SW7470	11/15/2008	12/4/2008
G2136-11ADUP	AQ	SW7470	11/15/2008	12/4/2008
G2136-11AMS	AQ	SW7470	11/15/2008	12/4/2008
G2136-12A	AQ	SW7470	11/15/2008	12/4/2008
G2136-13A	AQ	SW7470	11/15/2008	12/4/2008
G2136-15A	AQ	SW7470	11/15/2008	12/4/2008
G2136-17A	AQ	SW7470	11/15/2008	12/4/2008
SW7471				
G2136-08A	SL	SW7471	11/15/2008	12/3/2008
G2136-10A	SL	SW7471	11/15/2008	12/3/2008
G2136-14A	SL	SW7471	11/15/2008	12/3/2008
G2136-16A	SL	SW7471	11/15/2008	12/3/2008

Analytical Data Package for Earth Tech Northeast, Inc.

Client Project: Multi Site G— Liberty, DZUS

SDG# MG2136

Mitkem Work Order ID: G2136

December 17, 2008

Prepared For:

Earth Tech – AECOM
300 Broadacres Drive
Bloomfield, NJ 07003
Attn: Mr. Paul Kareth

Prepared By:

Mitkem Laboratories
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Laboratories submits the enclosed data package in response to Earth Tech Northeast, Inc.'s Multi Site G—Servall project. Under this deliverable, analysis results are presented for seventeen aqueous samples that were received on November 15, 2008. Analyses were performed per specifications in the project's contract and chain of custody forms. Following the narrative is the Mitkem Work Order for cross-referencing sample client ID with laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols (2000update) and reported per NYSDEC ASP requirement for Category B deliverable.

The following observation and/or deviations are observed for the following analyses:

1. Metals analysis:

Lab control sample: percent recoveries were within the QC limits.

Matrix spike analysis: matrix spikes were performed on samples LMW-19 and SW-1, on also sample SED-4 for ICP only. Spike recoveries were within the QC limits with the exception of antimony, cadmium and lead in SED-4. These elements are flagged with an "N" on the data reporting forms. A post digestion spike was performed on sample SED-4 with improved recoveries and reported.

Duplicate analysis: duplicate analyses were performed on samples LMW-19 and SW-1, on also sample SED-4 for ICP only. Percent recoveries were within the QC limits with the exception of aluminum, barium, cadmium, calcium, lead, magnesium, manganese, potassium and zinc. These elements are flagged with a "*" on the data reporting forms.

Sample analysis: serial dilutions were performed on samples LMW-19, SW-1 and SED-4. Percent differences were within the QC limits with the exception of barium, cadmium, chromium, cobalt, iron, lead, magnesium, vanadium and zinc in SED-4. These elements are flagged with an "E" on the data reporting forms. No other unusual occurrences were noted during sample analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Shirley Ng
Project Manager
12/17/08

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FB 111408

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2136

Matrix (soil/water): WATER Lab Sample ID: G2136-17

Level (low/med): MED Date Received: 11/15/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	56.0	U		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	8.5	U		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.33	B		P
7440-70-2	Calcium	130	U		P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	61.0	U		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	77.0	U		P
7439-96-5	Manganese	13.8	B		P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	41.0	U		P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	57.9	B		P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	12.0	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-18

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2136

Matrix (soil/water): WATER Lab Sample ID: G2136-02

Level (low/med): MED Date Received: 11/15/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	196	B		P
7440-36-0	Antimony	9.0	B		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	86.4	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.92	B		P
7440-70-2	Calcium	13500			P
7440-47-3	Chromium	5.4	B		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	11.0	B		P
7439-89-6	Iron	307			P
7439-92-1	Lead	2.5	B		P
7439-95-4	Magnesium	4960			P
7439-96-5	Manganese	122			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium	10200			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	1.6	B		P
7440-23-5	Sodium	29600			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	86.7			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-19

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2136

Matrix (soil/water): WATER Lab Sample ID: G2136-01

Level (low/med): MED Date Received: 11/15/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	56.0	U		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	20.0	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	9700			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	61.0	U		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	3970			P
7439-96-5	Manganese	14.9	B		P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	947	B		P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	1.1	B		P
7440-23-5	Sodium	13400			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	30.5	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-20

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2136

Matrix (soil/water): WATER Lab Sample ID: G2136-04

Level (low/med): MED Date Received: 11/15/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	81.6	B		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	48.8	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.74	B		P
7440-70-2	Calcium	4420			P
7440-47-3	Chromium	2.1	B		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	164	B		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	3400			P
7439-96-5	Manganese	35.0	B		P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	1.8	B		P
7440-09-7	Potassium	8190			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.60	B		P
7440-23-5	Sodium	29700			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	28.5	B		P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-21

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2136

Matrix (soil/water): WATER Lab Sample ID: G2136-05

Level (low/med): MED Date Received: 11/15/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	457			P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	58.2	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	4.8	B		P
7440-70-2	Calcium	11900			P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	6.6	B		P
7439-89-6	Iron	198	B		P
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium	2960			P
7439-96-5	Manganese	627			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	6.9	B		P
7440-09-7	Potassium	6250			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	19200			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	69.1			P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-5

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2136

Matrix (soil/water): WATER Lab Sample ID: G2136-07

Level (low/med): MED Date Received: 11/15/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	56.0	U		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	45.7	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	16900			P
7440-47-3	Chromium	7.3	B		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	61.0	U		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	2040			P
7439-96-5	Manganese	6.8	B		P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	4380			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	7570			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	13.7	B		P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-6

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2136

Matrix (soil/water): WATER Lab Sample ID: G2136-06

Level (low/med): MED Date Received: 11/15/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	56.0	U		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	15.7	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.55	B		P
7440-70-2	Calcium	8300			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	147	B		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	2590			P
7439-96-5	Manganese	40.8	B		P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium	2060			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	11600			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	21.9	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-68

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2136

Matrix (soil/water): WATER Lab Sample ID: G2136-03

Level (low/med): MED Date Received: 11/15/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	214			P
7440-36-0	Antimony	5.3	B		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	86.3	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	13800			P
7440-47-3	Chromium	5.6	B		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	10.1	B		P
7439-89-6	Iron	266			P
7439-92-1	Lead	2.5	B		P
7439-95-4	Magnesium	4960			P
7439-96-5	Manganese	126			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium	10400			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.91	B		P
7440-23-5	Sodium	30000			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	83.8			P

Comments:

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

January 13, 2009

Earth Tech – AECOM
300 Broadacres Drive
Bloomfield, NJ 07003
Attn: Mr. Paul Kareth

RE: Client Project: Multi Site G
Lab Work Order #: G2415

Dear Mr. Kareth:

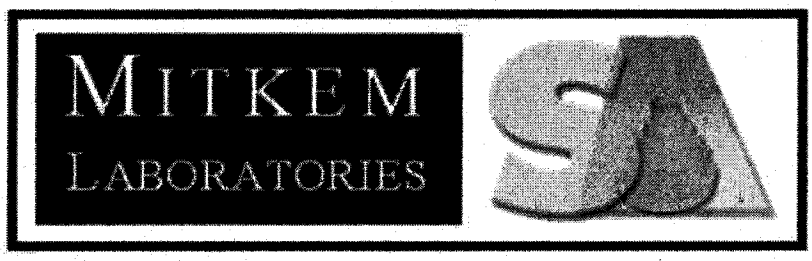
Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Shirley Ng
Project Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755 • 401-732-3400 • Fax 401-732-3499
www.mitkem.com



* Data Summary Pack *

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Multi Site G

SDG : G2415

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-12	G2415-01				SW6010_W	
MW-12	G2415-01				SW7470	
MW-14	G2415-02				SW6010_W	
MW-14	G2415-02				SW7470	

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : Multi Site G

SDG : G2415

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_W				
G2415-01A	AQ	SW6010_W	12/24/2008	1/6/2009
G2415-02A	AQ	SW6010_W	12/24/2008	1/7/2009
SW7470				
G2415-01A	AQ	SW7470	12/24/2008	1/3/2009
G2415-02A	AQ	SW7470	12/24/2008	1/3/2009

Analytical Data Package for Earth Tech Northeast, Inc.

Client Project: Multi Site G

SDG# MG2415

Mitkem Work Order ID: G2415

January 13, 2009

Prepared For:

Earth Tech – AECOM
300 Broadacres Drive
Bloomfield, NJ 07003
Attn: Mr. Paul Kareth

Prepared By:

Mitkem Laboratories
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Laboratories submits the enclosed data package in response to Earth Tech Northeast, Inc.'s Multi Site G project. Under this deliverable, analysis results are presented for two aqueous samples that were received on December 24, 2008. Analyses were performed per specifications in the project's contract and chain of custody forms. Following the narrative is the Mitkem Work Order for cross-referencing sample client ID with laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols (2000update) and reported per NYSDEC ASP requirement for Category B deliverable.

The following observation and/or deviations are observed for the following analyses:

1. Metals analysis:

Lab control sample: percent recoveries were within the QC limits.

Sample analysis: no unusual occurrences were noted during sample analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Shirley Ng
Project Manager
01/13/09

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-12

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2415

Matrix (soil/water): WATER Lab Sample ID: G2415-01

Level (low/med): MED Date Received: 12/24/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2260			P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	60.5	B		P
7440-41-7	Beryllium	0.19	B		P
7440-43-9	Cadmium	25.5			P
7440-70-2	Calcium	19700			P
7440-47-3	Chromium	18.9	B		P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	63.5			P
7439-89-6	Iron	4080			P
7439-92-1	Lead	83.7			P
7439-95-4	Magnesium	4330			P
7439-96-5	Manganese	82.7			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	14.9	B		P
7440-09-7	Potassium	2540			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	7.6	B		P
7440-23-5	Sodium	27100			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	8.6	B		P
7440-66-6	Zinc	220			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-14

Lab Name: Mitkem Laboratories Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2415

Matrix (soil/water): WATER Lab Sample ID: G2415-02

Level (low/med): MED Date Received: 12/24/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7090			P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.6	B		P
7440-39-3	Barium	162	B		P
7440-41-7	Beryllium	0.38	B		P
7440-43-9	Cadmium	59.1			P
7440-70-2	Calcium	35800			P
7440-47-3	Chromium	69.6			P
7440-48-4	Cobalt	5.1	B		P
7440-50-8	Copper	110			P
7439-89-6	Iron	9320			P
7439-92-1	Lead	221			P
7439-95-4	Magnesium	6340			P
7439-96-5	Manganese	231			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	53.2			P
7440-09-7	Potassium	7090			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	4.3	B		P
7440-23-5	Sodium	561000			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	22.5	B		P
7440-66-6	Zinc	520			P

Comments: