Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

Ralph Schupp
Operations Coordinator
Direct Dial (484) 941-3000

4825 Hyde Park Boulevard
Niagara Falls, NY 14305

February 26, 2010

Reference No. 009954

Mr. Gerald J Rider, P.E.
Chief Operation, Maintenance, and Support Section
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Bureau of Water Compliance Programs
625 Broadway, 4th Floor
Albany, NY 12233-3056

Dear Mr. Rider:

Re: Love Canal 2009 Operation and Monitoring Report

On behalf of Occidental Chemical Corporation, and in compliance with the Love Canal Operation and Maintenance Manual, Conestoga-Rovers & Associates (CRA) is submitting three copies of the Love Canal 2009 Operation and Monitoring Report.

An electronic copy of the full text, figures, and tables associated with this report are included on the attached CD as Adobe Acrobat pdf files. If you have any questions, please do not hesitate to call.

Very truly yours,

GLENN SPRINGS HOLDINGS, INC.

Ralph Schupp
Operations Coordinator

RS/JR/adh/xx
Encl.

c.c.: M. Basile, USEPA
D. Hoyt, CRA
D. Duda, USEPA, Region 2
J. Pentilchuk, CRA
G. Sutton NYSDEC Region 9

CONESTOGA-ROVERS
& ASSOCIATES

2009 PERIODIC REVIEW REPORT
LOVE CANAL SITE

GLENN SPRINGS HOLDINGS, INC.
NIAGARA FALLS, NEW YORK

PREPARED BY:
CONESTOGA-ROVERS & ASSOCIATES
2055 NIAGARA FALLS BLVD., SUITE THREE
NIAGARA FALLS, NEW YORK 14304

OFFICE: 716-297-6150
FAX: 716-297-2265
WEB: CRAWORLD.COM

FEBRUARY 2010
REF. NO. 009954 (17)

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF TABLES
(Following Text)

LIST OF APPENDICES

1.0 INTRODUCTION

Operation of the Love Canal Site (Site) was transferred from the New York State Department of Environmental Conservation (NYSDEC) to Occidental Chemical Corporation (OCC) in April 1995. Effective July 1, 1998, Site responsibility was assigned by OCC to Glenn Springs Holdings, Inc. (GSH), an affiliate of Occidental Chemical Corporation. Beginning October 1, 2008, GSH contracted Conestoga-Rovers & Associates (CRA) to perform operation, maintenance, monitoring, and reporting activities for the Site under direct management of GSH.

This report is the fifteenth annual report prepared by or on behalf of OCC and covers operating, maintenance, and monitoring activities for 2009. At the NYSDEC's request, the annual report title, Operation and Monitoring Report, was changed to Periodic Review Report for this and all future annual reports. The completed Institutional and Engineering Controls Certification Form is included as Appendix A.

2.0 REMEDIAL SYSTEMS

Operation of remedial systems to prevent the off-Site migration of chemical contaminants from the Site began in October 1978 with the installation of a barrier drain along the east and west sides of the south section of the Canal. The barrier drain was later extended to completely encompass the Canal. The barrier drain, designed to intercept the shallow lateral groundwater flow, consists of a trench 15 to 25 feet deep and 4 feet wide. Installed within the trench is an 8-inch diameter perforated clay tile drain centered in 2 feet of uniformly sized gravel which is overlain to the surface with sand. Lateral trenches filled with sand were excavated perpendicular to the barrier drain in the direction of the canal. The tile drain is graded toward a series of manholes and wet wells (PC-1A/PC-2A North/Central and PC-1/PC-2 South) where the leachate is collected. The leachate is pumped from the wet wells to two underground holding tanks (PC-3A North/Central and PC-3 South) where it is held prior to being treated at the Love Canal Treatment Facility (LCTF) and discharged to the Niagara Falls Water Board (NFWB) sanitary sewer system. The locations of the remedial system components are illustrated on the Site Plan presented as Figure 2.1.

In March 1999, the adjacent 102nd Street Landfill Site leachate collection system was connected to the Love Canal Site to transfer the 102nd Street leachate into the Love Canal southern storage tank (PC-3). The 102nd Street Landfill Site leachate collection system operates continuously. For the year of 2009, the four-well system at 102nd Street pumped 429,262 gallons of leachate to the LCTF, the combined waters were then treated on-Site and discharged to the permitted NFWB sanitary sewer.

2.1 OPERATIONS OF THE BARRIER DRAIN AND WELL COLLECTION SYSTEM

2.1.1 BARRIER DRAIN SYSTEM

There was no major maintenance performed on the Barrier Drain (BD) system during 2009. The system functioned without any problems or irregularities. Visual inspections of the collection system were conducted on May 10 and October 6, 2009. The visual inspections were conducted through the BD system manholes and showed the flumes of the manholes were flowing freely and required no further maintenance. The visual inspections were documented on the Semi-Annual Inspection Forms. The completed forms are presented as Appendix B.

2.1.2 WET WELL COLLECTION SYSTEM

The wet well collection well system consists of two sectors, the Northern/Central and the Southern Collection System. Leachate from the Northern/Central Sector is pumped from wet wells PC-1A and PC-2A while leachate from the Southern Sector is pumped from wet wells PC-1 and PC-2. The collection systems were operational and functioned properly throughout the year as evidenced by quarterly water level measurements, LCTF treatment system operation, and the BD System manhole inspection that occurred on May 10 and October 6, 2009.

2.1.3 102ND STREET LANDFILL FORCEMAIN

The adjacent 102nd Street Landfill Site's leachate is pumped to and treated at the LCTF. Leachate from the 102nd Street Landfill is transferred to the LCTF via a leachate forcemain that runs under River Road, LaSalle Expressway, and Frontier Avenue. The 102nd Street Landfill Site's leachate line discharges to the southern storage tank (PC-3). The leachate line construction was completed in March of 1999. This provides for treatment and discharge of the 102nd Street leachate through the LCTF and its permitted NFWB outfall.

3.0 GROUNDWATER TREATMENT AND MONITORING

3.1 GROUNDWATER TREATMENT

3.1.1 TREATMENT SYSTEM

The treatment system consists of clarification, bag filtration, and carbon treatment prior to discharge to the NFWB sanitary sewer system. A process schematic depicting the layout of the treatment system is presented as Figure 3.1.

Site effluent discharge is conducted under the Significant Industrial User (SIU) Permit #44 issued by the NFWB. In 2005, the NFWB reissued the wastewater discharge Permit #44 to OCC for another 5 years. The permit is valid from January 6, 2005 through January 6, 2010. A copy of the permit is included as Appendix C. The permit was reissued for an additional five years in January 2010. A copy of the new permit can be found in Appendix C.

Routine maintenance activities were performed throughout the year. The major activities are presented below (see Section 4 for completed Site activities for the year 2009).

3.1.2 EFFLUENT DISCHARGE

The LCTF discharged to the NFWB sanitary sewer system on 153 days in 2009.

Periodically, unusually heavy rainfall or snow melt at the Love Canal and surrounding area can result in surcharged sewers. These surcharges lead to overflows at the combined sanitary and storm sewer overflow points. Consequently, to minimize the potential for LCTF treated effluent discharge from contributing to the surcharge conditions, the NFWB requires the LCTF to cease discharge during these surcharge events.

In 2009, the LCTF processed a total of 4,042,500 gallons of leachate. This total was comprised of 3,613,238 gallons of leachate from the Love Canal Landfill and 429,262 gallons of leachate from the 102nd Street Landfill.

Table 3.1 shows the monthly total and average treated groundwater quantities for the last 10-year period of 2000 to 2009.

3.1.3 EFFLUENT SAMPLING

Sampling of the effluent discharged to the NFWB sanitary sewer system occurred quarterly as required under the Site's SIU Discharge Permit #44 issued by NFWB. The quarterly effluent sampling for 2009 was performed on February 10, April 6, July 14, and October 6. The sample results were submitted to the NFWB and State agencies on a quarterly basis. The results for each event were less than the limits established in the Site's SIU Permit.

On January 8, 2009, the NFWB and Site personnel completed a semi-annual inspection of the Site. As a result of this inspection it was noted that quarterly calibration of the flow meter measuring the effluent discharge to the NFWB sewer system is required. This calibration is now being completed.

3.1.4 PRECIPITATION

Precipitation in the Niagara Falls region, in 2009, totaled 42.37 inches (Buffalo Airport, National Weather Service data) compared to the National Weather Service regional average of 36.38 inches. Table 3.1 provides historic regional precipitation data from 2000 through 2009.

3.2 GROUNDWATER MONITORING

3.2.1 GROUNDWATER QUALITY

Sampling and analytical protocols for the Site's groundwater sampling program have been established and are set forth in the "Sampling Manual, Love Canal Site, Long-Term Groundwater Monitoring Program" (LTGMP) dated January 1996.

3.2.2 CHEMICAL MONITORING

The annual chemical sampling event was performed between June 24 and July 15, 2009. As part of the annual groundwater monitoring efforts in 2009, 39 discrete wells were sampled. The 39 wells were selected based on the requirements of the LTGMP, a review of past groundwater data, and NYSDEC input. In 2009, NYSDEC did not collect any split samples.

In June/July 2009, Forty-nine groundwater samples (including three field duplicates, two rinse blanks and five trip blanks) were collected in support of the Long-Term Groundwater Monitoring Program (LTGMP). The samples were submitted to Mitkem Laboratories (Mitkem), located in Warwick, Rhode Island, and analyzed for site-specific volatiles, semi-volatiles, and pesticides/polychlorinated biphenyls (PCBs). A qualified CRA chemist performed the analytical QA/QC. The Quality Assurance/Quality Control (QA/QC) report for this event is presented in Appendix D.

The 2009 chemical analytical results are consistent with previous long-term monitoring analytical results. The chemistry detected was at low levels (except groundwater from well 10135, which is installed in an area of known Site impacts) and does not indicate a failure in the barrier drain nor pose an immediate threat to groundwater quality in the vicinity of the Site.

Figure 3.2 identifies the wells sampled and their locations. Table 3.2 provides a summary of the wells (21 overburden and 18 bedrock) that were sampled, along with the number of compounds found at or above the detection limits in each well.

Table 3.3 presents the analytical results from the annual monitoring and the analytes that were detected from the overburden wells. Table 3.4 presents the analytical results from the annual monitoring and the analytes that were detected from the bedrock wells. There were 44 discrete compounds detected: 16 volatile organic compounds (VOCs); 17 semi-volatile organic compounds (SVOCs); and 10 pesticides.

Historically, Well 10135 has had the most detected compounds and with the highest concentrations. As stated in the LTGMP, well 10135 is located in an area of known contamination and is sampled to present a "worst case" well. In 2009, well 10135 had 41 discrete compounds detected. Well 10135 is located within the boundaries of the remedial Site in the southwestern zone. Groundwater in the vicinity of this well is captured by the collection system as evidenced by Figure 3.9.

Table 3.5 presents a summary of detected compounds of four long-term monitoring wells (10210A, 10210B, 10210C, and 10135) from 1990 to 2009. The data from these four wells are presented since they have the most consistent historical record of detections of compounds. The data from the additional Site wells not presented in Table 3.5 are mostly non-detect with the occasional low level detection and therefore do not present any significant data in regards to a discussion of historical analytical trends at the Site. An evaluation of the 2009 sampling data for these four wells shows that the compounds detected in 2009 were at concentrations consistent with historical trends.

3.2.3 HYDRAULIC CONTAINMENT

Water levels were measured at six nested piezometer strings (1140, 1150, 1160, 1170, 1180, and 1190) in March, May, August, and December 2009. The water level data are presented in Tables 3.6A to 3.6F. The wells on the tables are ordered from the well furthest from the outside of the barrier drain, to the barrier drain, and to the well inside the area enclosed by the barrier drain. Figures 3.3 to 3.8 show the overburden groundwater flow conditions for March 2009 along the six piezometer strings. A review of the piezometer string groundwater elevation data from the remaining three quarters (May, August, and December) is consistent with the March 2009 data and therefore, figures depicting the overburden groundwater flow conditions from those quarters have not been created.

In addition to the above mentioned information, a groundwater contour figure was prepared using the March 2009 water levels from the six nested piezometer strings. The March 2009 groundwater contour figure is presented as Figure 3.9.

The groundwater contour figure and Tables 3.6A to 3.6F illustrate that there is approximately 10 feet of inward gradient at each of the six nested piezometer strings. Based on the water level data from the six nested piezometer strings, an inward gradient can be inferred to exist around the entire collection drain system demonstrating that the horizontal groundwater flow outside of the barrier drain is towards the barrier drain. A review of the contour figure also shows that groundwater flow inside of the barrier drain is towards the barrier drain.

3.2.4 WELL MAINTENANCE

No maintenance was required on any of the monitoring wells during 2009.

A complete geo-spatial survey of the monitoring wells and piezometers at the Site was conducted in the summer of 2008. The survey results were fully evaluated and all outstanding survey issues resolved. As of January 1, 2009, the new survey data is utilized for the creation of all Site figures and groundwater elevation calculations.

4.0 ACTIVITIES

Summaries of normal activities and repairs performed in 2009 are presented below.

4.1 PROCESS ACTIVITIES

Activities that occurred during the year included the following:

- replace PC-3 pump lightning arrestor
- repair telecom equipment to the Western New York network
- calibrate sewer flowmeter

4.2 NON-PROCESS ACTIVITIES

Activities that occurred during the year included the following:

- front gate repair
- install heat trace and piping insulation on water line entering the decontamination drum storage building
- repair decontamination drum storage building water main
- preventive maintenance on HVAC units at all buildings

4.3 COMMUNITY OUTREACH

Community Outreach programs included such activities as beautification of the area surrounding the Landfill and tours of the facility.

4.3.1 BEAUTIFICATION

The following activities were conducted at Love Canal in 2009:

- maintenance and landscaping of the Site and surrounding areas;
- maintenance of flowerbeds and shrubs along Colvin Boulevard, 95th Street, and Frontier Avenue; and
- cleanup of discarded debris around fence line and adjacent lots.

4.3.2 TOURS

Tours of the facility have been given throughout the years to representatives of various environmental agencies (domestic and foreign) and educational groups. The tours include an informational orientation, accompanied with visual aids, followed by a guided tour of the treatment facility and landfill.

On June 11, 2009, a tour of the Love Canal Site was given to the New York and New Jersey Education and Research Center.

4.3.3 COMMUNICATIONS

All required reporting was compiled and submitted to various agencies throughout the year. Reports included the 2008 Annual Hazardous Waste Reports to NYSDEC, the 2008 Periodic Review Report (formerly titled the Annual Operations and Monitoring Report) to various agencies, and monthly flow reports to the NFWB.

The Annual Community Report for 2009 was issued to surrounding citizens and agencies in April 2009. The report summarizes items such as the amount of groundwater treated on-Site and then discharged to NFWB's sanitary sewer system, maintenance activities and other non-operational activities for the year.

The NFWB performed an annual inspection of the LCTF in 2009. Additionally, an annual verification sampling of the effluent discharge was performed by the NFWB. The inspections and the annual effluent verification sampling concluded that the Site is being maintained and operated in accordance with the Site's SIU discharge permit and other local, State, and Federal requirements.

4.4 WASTE GENERATION

Throughout the year, hazardous waste is generated and disposed of off Site. The tracking of the waste is performed by regulated hazardous waste manifests. A summary of the Site's annual hazardous waste generated is reported to the NYSDEC in the Annual Hazardous Waste Report. The Report summarizes the quantities, disposers, and disposal methods.

A total of 215 pounds of hazardous waste were generated from various activities on Site. The waste materials were then sent off Site for proper disposal in accordance with all applicable laws and regulations (landfilled, incinerated, or reclaimed depending on categorization). All waste generated in 2009 were transported and disposed of by incineration by Clean Harbors, LLC.

The hazardous waste disposed of in 2009 consisted of debris/soil/filters/personal protective equipment (PPE). No spent carbon was generated by the LCTF for 2009.

4.5 ROUTINE OPERATIONS, INSPECTIONS, AND MONITORING

- A daily inspection of the system operations was performed for each day in 2009 in accordance with the Operation and Maintenance Manual (O&M) for the Love Canal Site dated October 14, 2002.

- Monthly inspections of the fire extinguishers and monthly checks of the carbon vent scrubbers for breakthrough were also completed per the O&M Manual.

- The backflow preventer system was inspected and tested by Camtech on March 17, 2009. All backflow prevention devices were found to be operational with no maintenance required. A copy of the Test and Maintenance of Backflow Prevention Device Report, for each device is presented in Appendix E.

5.0 CONCLUSION

The 2009 data indicates that there was no significant change in chemical and hydrogeological conditions at the Site. The barrier drain is successfully capturing leachate from the Site and preventing off-Site migration of chemicals as evidenced by the groundwater gradients depicted on Figures 3.3 to 3.9. The remediation system is functioning as designed based on third party inspections by the NYSDEC and the NFWB and effluent compliance with the Site's SIU discharge permit. There were 4,042,500 gallons of leachate treated and discharged from the Site, of which 3,613,238 gallons of leachate were collected on Site and the remaining 429,262 gallons were collected from the 102nd Street Site and pumped to the LCTF for treatment.

FIGURES

N

0 100 250ft

READ AVENUE

95th STREET

97th STREET

99th STREET

100th STREET

LASALLE EXPRESSWAY

FRONTIER AVENUE

COLVIN BOULEVARD

5221

5222

10215

10270 10115 10272 10174A 10176 10276 10178 10278

10147 10150 10225A 10225B 10225C

ADMINISTRATION BUILDING

7105

7115 7120 7125 7205 7130 7132 7155 3157 3257 3251 3151

DRUM STORAGE FACILITY

1174

10113

10210C 10210B 10210A 10105

102ST LANDFILL LEACHATE TRANSFER LINE (APPROXIMATE LOCATION)

1165 10135

1163 1162 1161 1160

PC-2

PC-3

TREATMENT PLANT

PC-3A

1154 1153 1151 1150

10205 9140

1173 1172 1171 1170

PC-2A

7160 7161

1190 1191

PC-1A

1180 1181 1183 1184

1192

PC-1

1140 1141 1142 1143 1144

9210

1193 1194

8110 8115 8106

9130 6209

9125 9122 9120 9118 9115 9113 9110 9105 8140 8135 8130 8125 8120

LEGEND

FENCE LINE	
BARRIER DRAIN	
7105	PIEZOMETER WELL
9120	OVERBURDEN OBSERVATION WELL
10270	BEDROCK OBSERVATION WELL
PC-1	WET WELL FOR LEACHATE COLLECTION
PC-3	UNDERGROUND LEACHATE STORAGE TANK
	APPROXIMATE LIMITS OF DISPOSED WASTE

9205

8210

figure 2.1

SITE PLAN
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

09954-99931(017)GN-WA001 FEB 25/2010

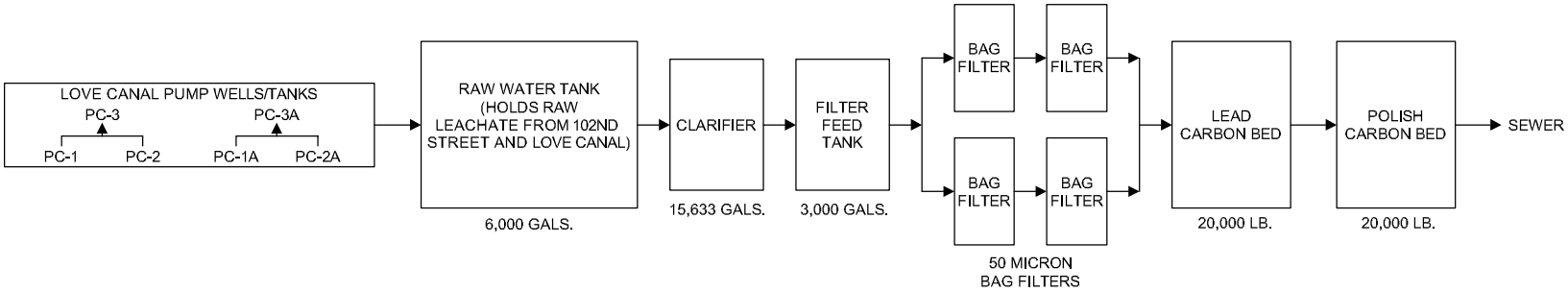

figure 3.1

PROCESS SCHEMATIC
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

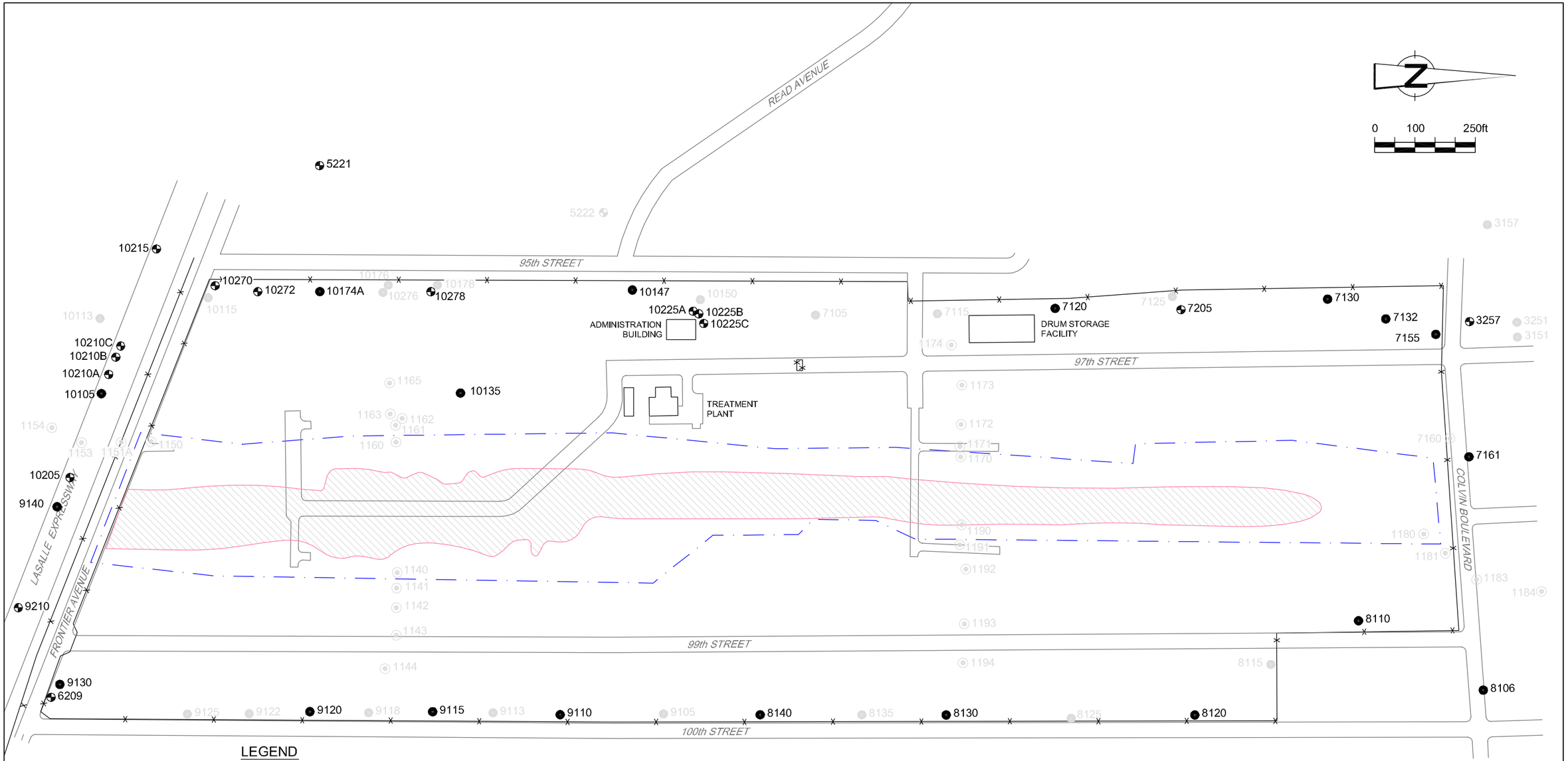

figure 3.2

2009 GROUNDWATER MONITORING LOCATIONS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

09954-99931(017)GN-WA003 FEB 23/2010

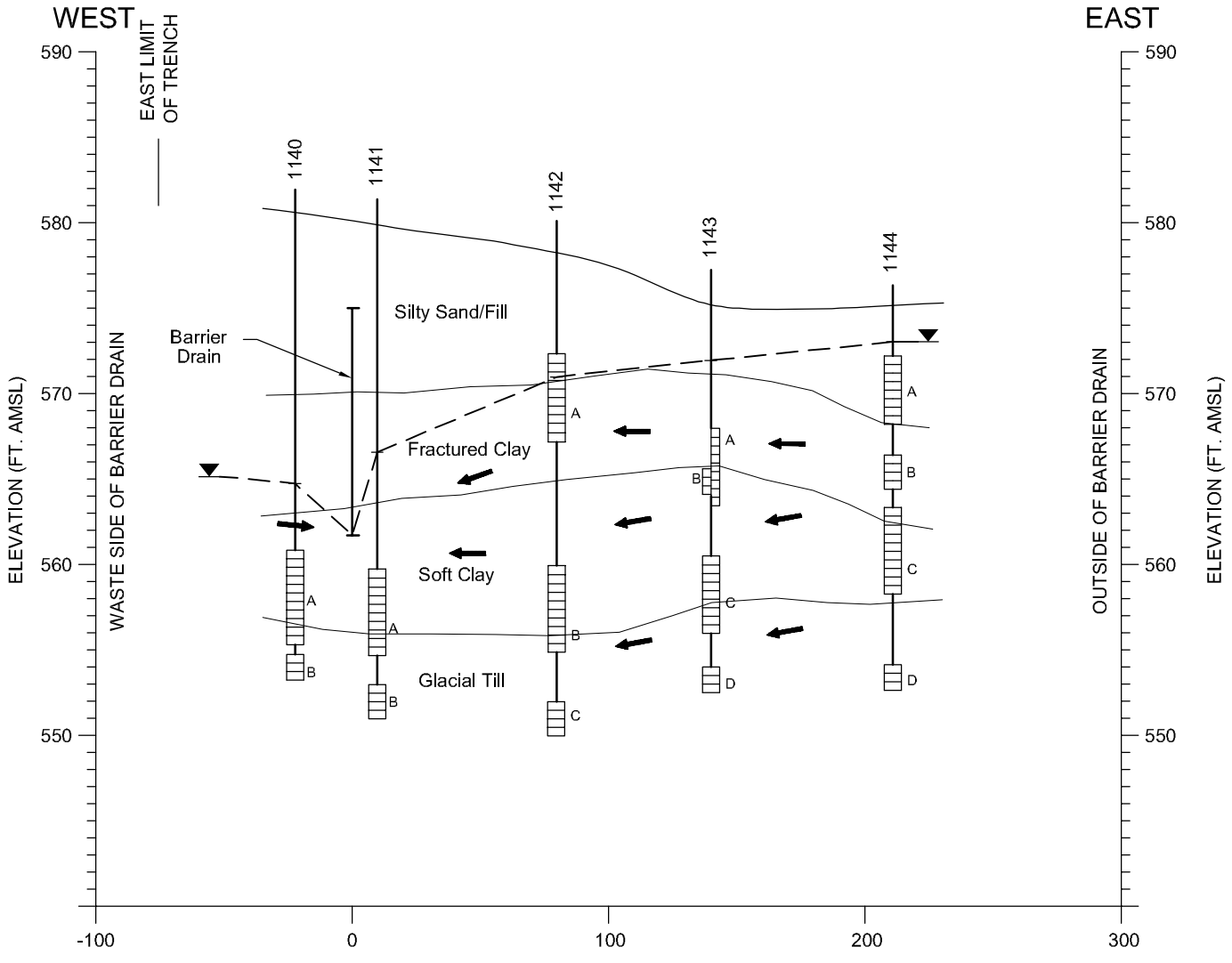

figure 3.3

MARCH 2009 FLOW DIAGRAM
1140 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

LEGEND

- A — PIEZOMETER DESIGNATION
- — — — GROUNDWATER LEVEL
- ➡ FLOW DIRECTION
- ▯ SCREENED INTERVAL

NOTE: (1) GROUNDWATER LEVEL SHOWN IS FOR UPPERMOST MONITORED INTERVAL

(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

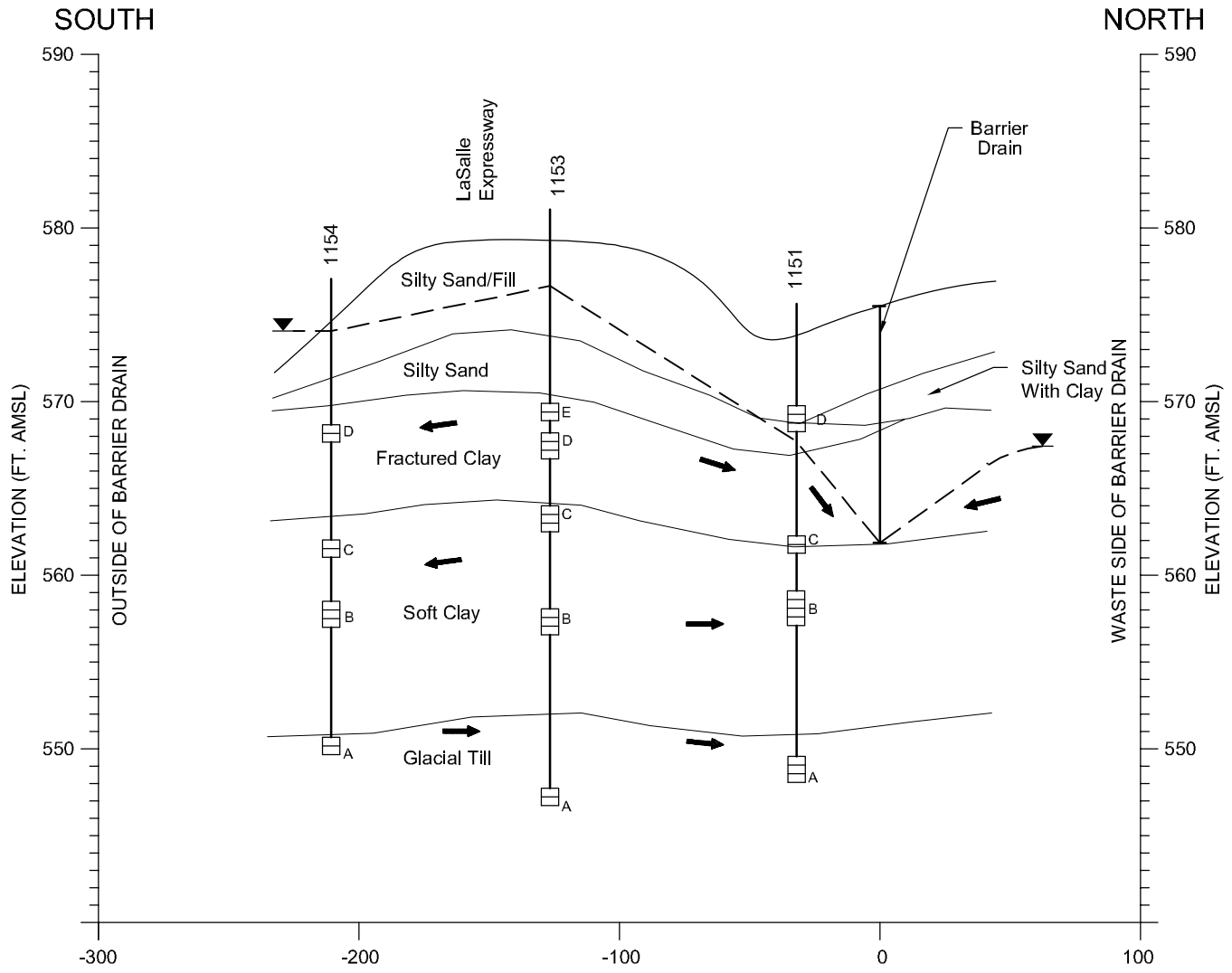

figure 3.4

MARCH 2009 FLOW DIAGRAM
1150 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

LEGEND

A — PIEZOMETER DESIGNATION

— — — GROUNDWATER LEVEL

→ FLOW DIRECTION

SCREENED INTERVAL

NOTE: (1) GROUNDWATER LEVEL SHOWN IS FOR UPPERMOST MONITORED INTERVAL

(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

09954-99931(017)GN-WA005 FEB 15/2010

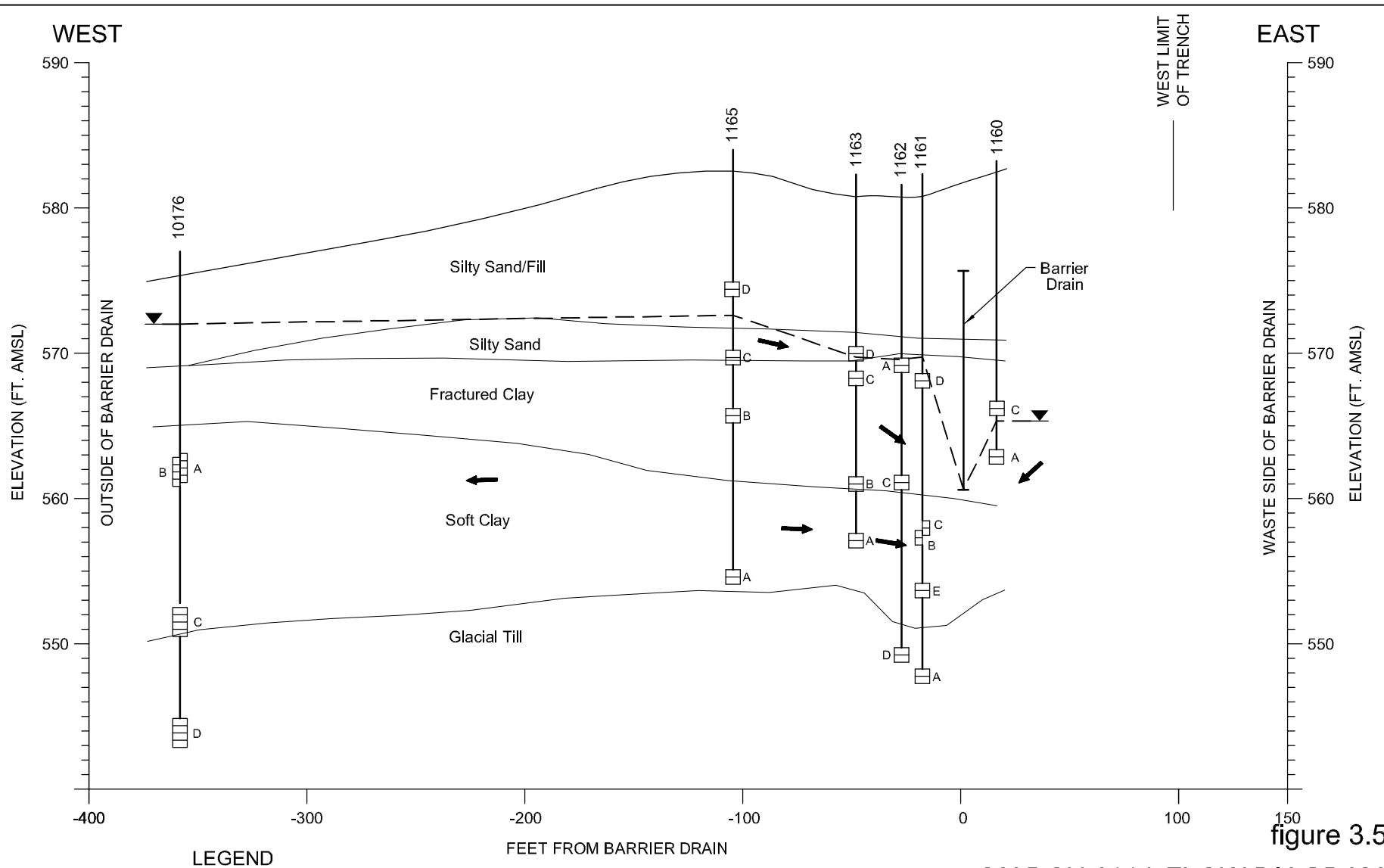

figure 3.5

MARCH 2009 FLOW DIAGRAM
1160 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

LEGEND

- A — PIEZOMETER DESIGNATION
- — — — GROUNDWATER LEVEL
- → FLOW DIRECTION
- SCREENED INTERVAL

NOTE:
(1) GROUNDWATER LEVEL SHOWN IS FOR UPPERMOST MONITORED INTERVAL
(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.
(3) WELL SCREEN 1163 D MOVED UP TO MATCH FIELD MEASUREMENTS.

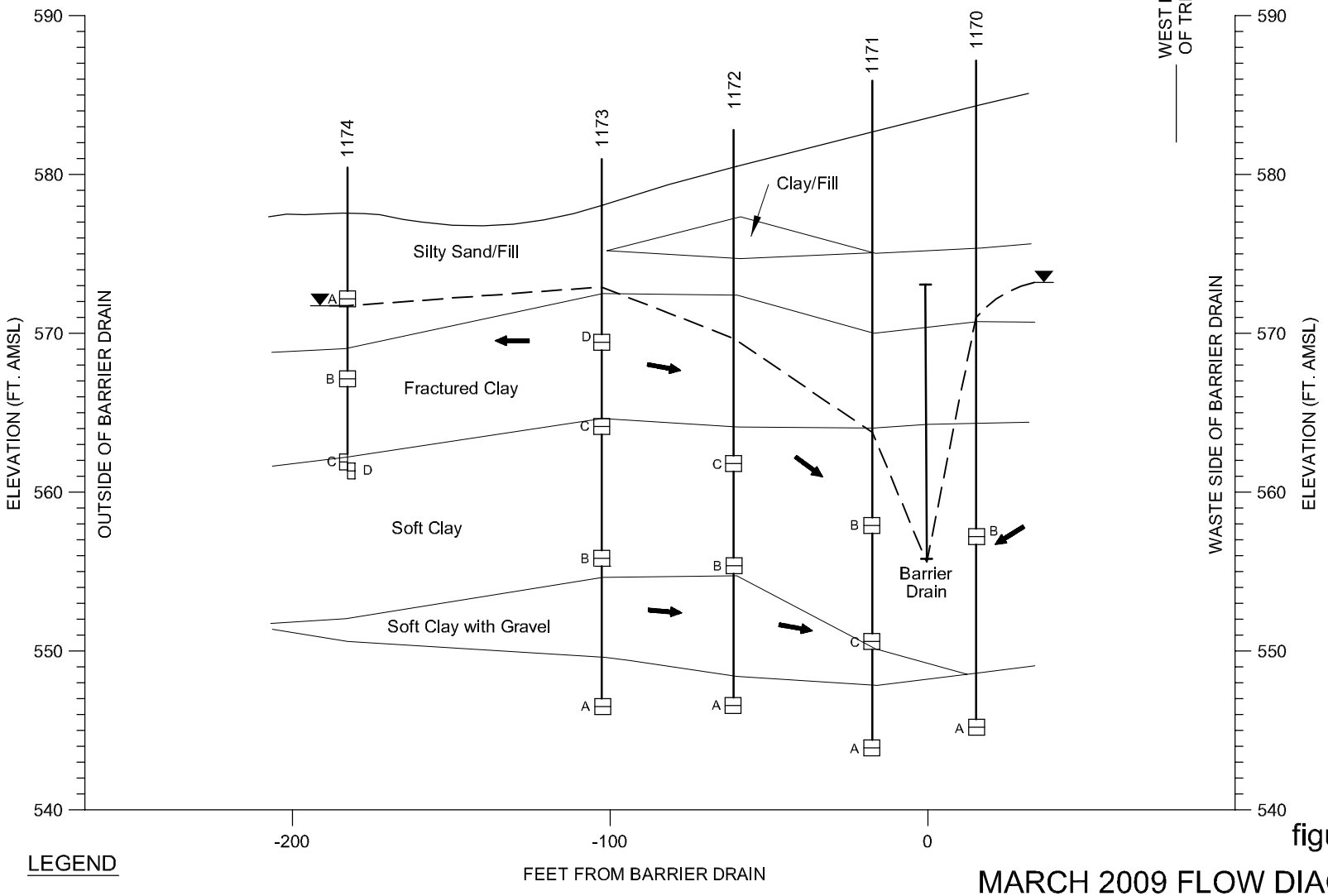

figure 3.6

LEGEND

A PIEZOMETER DESIGNATION

GROUNDWATER LEVEL

FLOW DIRECTION

SCREENED INTERVAL

NOTE: (1) GROUNDWATER LEVEL SHOWN IS FOR UPPERMOST MONITORED INTERVAL

(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

MARCH 2009 FLOW DIAGRAM
1170 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

09954-99931(017)GN-WA007 FEB 15/2010

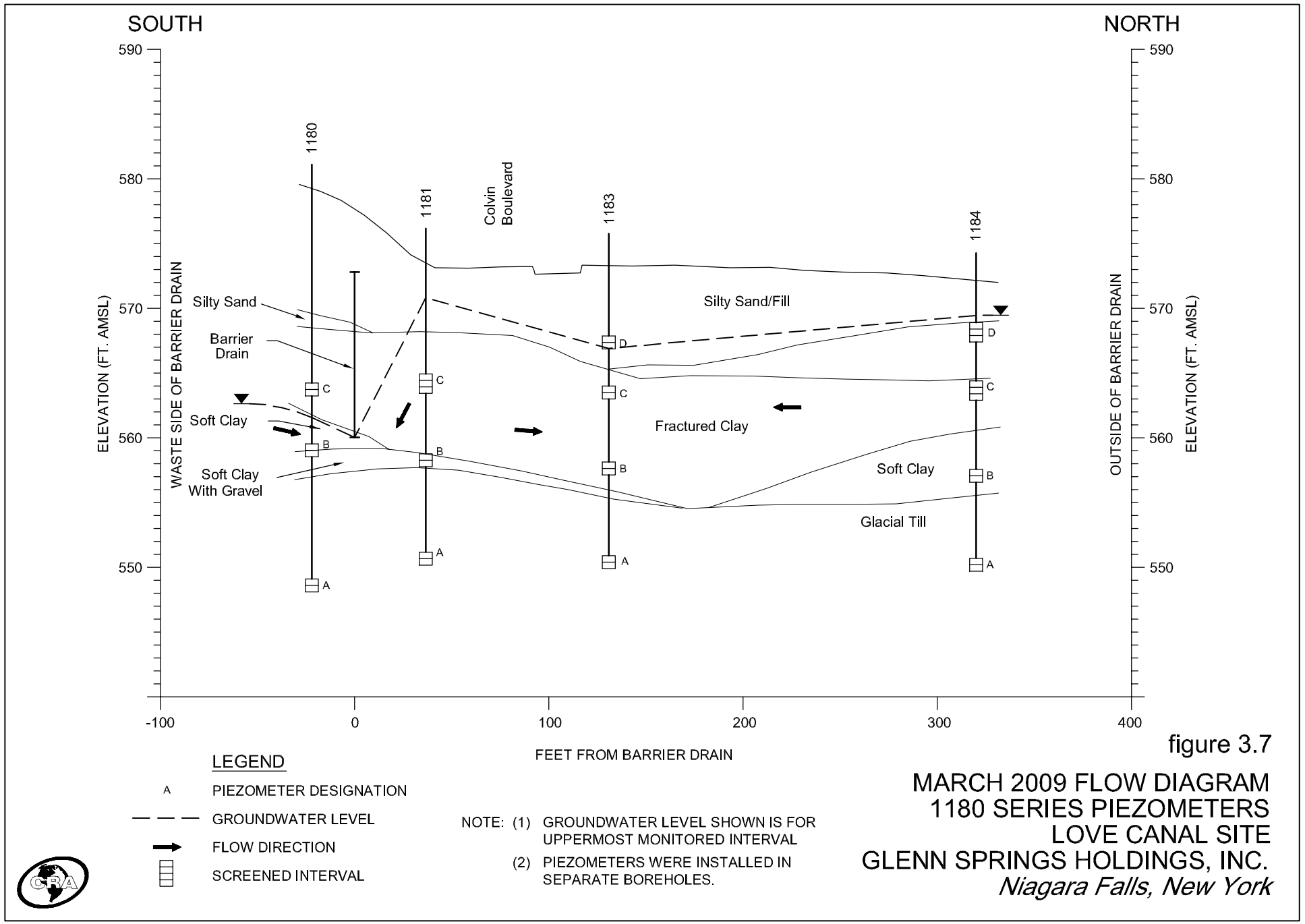

figure 3.7

MARCH 2009 FLOW DIAGRAM
1180 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

09954-99931(017)GN-WA008 FEB 15/2010

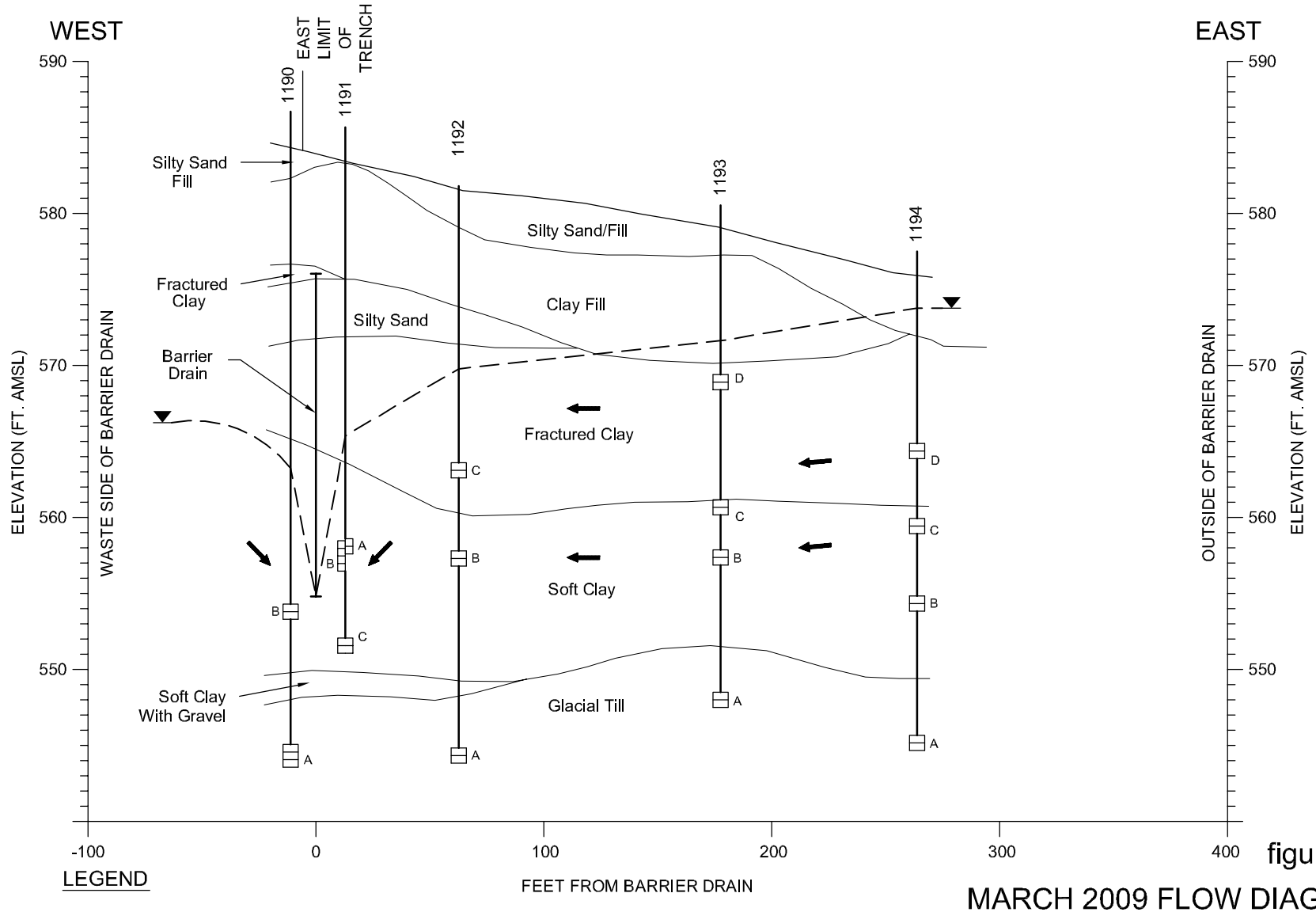

figure 3.8

LEGEND

A PIEZOMETER DESIGNATION

GROUNDWATER LEVEL

FLOW DIRECTION

SCREENED INTERVAL

NOTE: (1) GROUNDWATER LEVEL SHOWN IS FOR UPPERMOST MONITORED INTERVAL

(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

MARCH 2009 FLOW DIAGRAM
1190 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

09954-99931(017)GN-WA009 FEB 15/2010

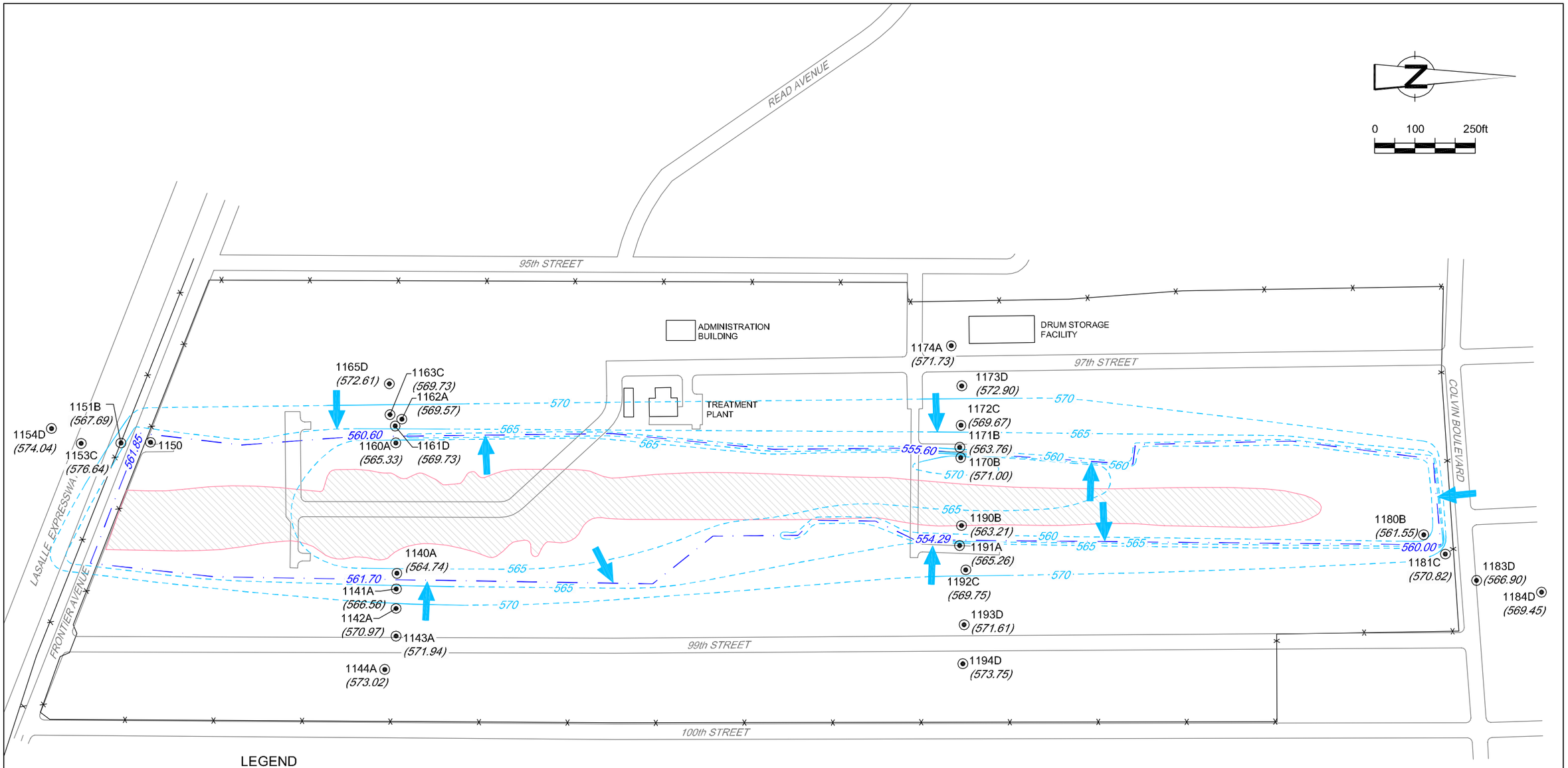

figure 3.9

MARCH 2009 GROUNDWATER CONTOURS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

09954-99931(017)GN-WA010 FEB 22/2010

TABLES

TABLE 3.1

MONTHLY VOLUMES OF GROUNDWATER TREATED
LOVE CANAL LEACHATE TREATMENT FACILITY
GLENN SPRINGS HOLDINGS, INC.

			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
January	Gross	(1)	**495,800**	**396,900**	**488,900**	**419,400**	**309,200**	**841,400**	**855,900**	**993,400**	**674,000**	**523,500**
	Net	(2)	280,364	282,480	422,682	374,123	260,171	796,518	817,305	970,918	649,777	495,713
	Days	(3)	21	20	21	14	10	17	16	20	18	16
February	Gross		**480,400**	**560,000**	**663,700**	**266,300**	**330,000**	**440,200**	**437,300**	**216,600**	**570,000**	**506,700**
	Net		368,492	468,863	608,116	231,049	291,082	401,137	405,124	174,776	539,772	485,869
	Days		21	19	20	13	9	11	9	7	16	13
March	Gross		**505,500**	**616,400**	**364,900**	**721,500**	**1,038,400**	**698,900**	**436,800**	**582,500**	**570,500**	**606,900**
	Net		290,501	493,476	316,696	667,337	986,332	667,105	402,047	560,237	550,518	582,109
	Days		23	21	21	17	21	13	13	16	12	18
April	Gross		**675,600**	**352,300**	**689,700**	**432,800**	**800,400**	**805,300**	**184,800**	**447,200**	**602,000**	**414,900**
	Net		547,926	262,946	629,683	380,745	767,982	769,514	155,028	420,133	574,359	377,080
	Days		20	20	20	16	17	14	6	14	12	16
May	Gross		**473,300**	**311,200**	**589,500**	**425,400**	**326,500**	**183,400**	**121,800**	**323,200**	**172,900**	**306,200**
	Net		335,331	207,580	532,251	379,299	294,612	156,846	93,394	297,471	147,715	267,700
	Days		20	17	20	14	10	5	4	12	11	14
June	Gross		**632,200**	**202,200**	**395,100**	**367,900**	**253,200**	**160,800**	**130,700**	**173,300**	**128,700**	**110,000**
	Net		486,721	132,132	347,485	303,576	208,659	118,979	104,449	148,638	107,411	79,200
	Days		20	16	14	13	9	6	5	4	6	7
July	Gross		**333,900**	**182,200**	**194,500**	**187,700**	**137,700**	**92,600**	**195,500**	**129,100**	**164,760**	**187,900**
	Net		184,955	111,941	145,344	142,849	111,217	78,234	183,084	99,026	141,442	153,170
	Days		20	16	16	11	7	3	5	6	6	7
August	Gross		**437,100**	**267,200**	**151,300**	**158,600**	**301,900**	**98,800**	**322,440**	**120,800**	**197,340**	**369,400**
	Net		286,925	194,821	107,928	114,497	269,934	55,055	293,900	106,040	191,068	347,425
	Days		23	18	17	8	10	5	10	5	6	18
September	Gross		**209,600**	**144,900**	**148,600**	**105,800**	**484,800**	**317,900**	**249,160**	**68,400**	**152,200**	**101,500**
	Net		82,263	81,619	94,401	60,350	435,482	284,315	213,343	49,041	122,101	76,057
	Days		20	16	12	7	12	8	7	4	9	7
October	Gross		**264,300**	**438,500**	**154,600**	**211,000**	**135,700**	**486,300**	**919,200**	**173,000**	**296,100**	**199,200**
	Net		134,248	348,153	108,226	211,000	94,476	445,560	892,734	141,650	274,068	129,035
	Days		20	18	13	9	4	10	18	8	13	8
November	Gross		**250,900**	**250,400**	**360,800**	**356,800**	**211,400**	**524,600**	**691,800**	**90,100**	**449,700**	**210,100**
	Net		132,728	194,481	306,258	310,650	186,999	494,443	658,765	77,506	414,149	152,302
	Days		17	16	14	12	5	14	14	3	14	12
December	Gross		**522,600**	**555,300**	**549,600**	**692,300**	**674,400**	**502,000**	**510,400**	**345,700**	**757,500**	**506,200**
	Net		421,149	475,856	496,556	643,735	622,403	476,165	492,900	317,790	733,582	467,578
	Days		17	18	15	14	14	12	12	8	20	17
Total	Gross		**5,281,200**	**4,277,500**	**4,751,200**	**4,345,500**	**5,003,600**	**5,152,200**	**5,055,800**	**3,663,300**	**4,735,700**	**4,042,500**
	Net		**3,551,603**	**3,254,348**	**4,115,626**	**3,819,210**	**4,529,349**	**4,743,871**	**4,712,073**	**3,363,226**	**4,445,962**	**3,613,238**
	Days		**242**	**215**	**203**	**148**	**128**	**118**	**119**	**107**	**143**	**153**
Monthly	Gross		**440,100**	**356,458**	**395,933**	**362,125**	**416,967**	**429,350**	**421,317**	**305,275**	**394,642**	**336,875**
Average	Net		295,967	271,196	342,969	318,268	377,446	395,323	392,673	280,269	370,497	301,103
	Days		20	18	17	12	11	10	10	9	12	13
Precipitation Inches			**42.2**	**35.18**	**39.74**	**37.15**	**41.73**	**39.07**	**44.41**	**35.12**	**47.23**	**42.37**

Notes:

(1) Gross: Total Volume fo Leachate Treated in gallons; as of March 1999 Treatment at LCTF included leachate collected from 102nd Street Landfill Site.

(2) Net: LC (Love Canal) Leachate Treated in gallons; Net is equalt to the total (gross) leachate treated less leachate received from 102nd Street.

(3) Days: Number of days Treatment Facility discharged to the sanitary sewer.

N/A Not Available.

TABLE 3.2

SUMMARY OF DETECTED COMPOUNDS - 2009
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Overburden Wells	*Well*	*VOCs*	*SVOCs*	*Pesticides/PCBs*
3257	X	U	1	U
7120	B-I	1	U	U
7130	A	1	1	U
7132	A	1	2	U
7155	B-I	1	U	1
7161	B-I	U	U	U
8106	X	U	U	U
8110	B-I	U	U	U
8120	B-I	U	1	U
8130	B-I	U	U	U
8140	B-I	U	2	1
9110	B-I	U	U	U
9115	B-I	U	1	U
9120	B-I	U	U	3
9125	B-I	U	1	U
9130	B-II	U	2	U
9140	B-I	U	U	U
10105	B-II	U	1	U
10135	A	16	15	10
10147	B-I	U	1	U
10174A	B-I	U	U	U
Subtotal Overburden Wells		**20**	**27**	**15**
Bedrock Wells				
3257	A	U	1	U
5221	X	U	U	U
6209	X	U	U	U
7205	A	U	1	U
8210	A	U	1	1
9205	A	U	U	3
9210	A	U	U	3
10205	A	U	1	3
10210A	A	U	2	U
10210B	A	U	U	3
10210C	A	U	U	1
10215	X	U	U	3
10225A	A	U	2	1
10225B	A	1	U	3
10225C	A	1	2	3
10270	X	U	U	1
10272	A	U	1	2
10278	A	U	U	3
Subtotal Bedrock Wells		**2**	**11**	**30**
Total # of Detections		**22**	**38**	**45**

Notes:

U No parameters detected at or above detection limits.
A Annual Well.
B-I Biannual Well Group I.
B-II Biannual Well Group II.
X Additional Well.

TABLE 3.3

2009 ANALYTICAL RESULTS SUMMARY-OVERBURDEN
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Location:		*3257*	*7120*	*7130*	*7132*	*7155*	*7161*	*8106*	*8110*	*8120*	*8130*
Sample ID:		*LC-3257-609*	*LC-7120-609*	*LC-7130-609*	*LC-7132-609*	*LC-7155-609*	*LC-7161-609*	*LC-8106-609*	*LC-8110-709*	*LC-8120-709*	*LC-8130-709*
Sample Date:		*6/25/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/25/2009*	*6/25/2009*	*7/1/2009*	*7/7/2009*	*7/1/2009*
Parameters	***Units***										
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	ug/L	10 U	2.2 J	3.1 J	4.1 J	7.7 J	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds		0	1	1	1	1	0	0	0	0	0

2009 ANALYTICAL RESULTS SUMMARY-OVERBURDEN
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*6/25/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/25/2009*	*6/25/2009*	*7/1/2009*	*7/7/2009*	*7/1/2009*
Parameters	***Units***										
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds											
1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ
2,4,5-Trichlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
2,4-Dinitrophenol	ug/L	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 U	25 UJ	25 UJ	25 UJ	25 U
2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ
3-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ	25 U
4,6-Dinitro-2-methylphenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ	25 U
4-Bromophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ	25 U
Acenaphthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Benzo(k)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	ug/L	4.8 J	25 UJ	25 UJ	5.5 J	25 UJ	25 U	25 UJ	25 UJ	25 UJ	25 U
Benzyl Alcohol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U	10 U	1.0 J	3.0 J	10 U	10 U	10 U	10 U	1.1 J	10 U
Butyl benzylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

2009 ANALYTICAL RESULTS SUMMARY-OVERBURDEN
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*6/25/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/25/2009*	*6/25/2009*	*7/1/2009*	*7/7/2009*	*7/1/2009*
Parameters	***Units***										
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Hexachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Isophorone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 UJ	25 U	25 U	25 UJ	25 UJ
Phenanthrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds		1	0	1	2	0	0	0	0	1	0

2009 ANALYTICAL RESULTS SUMMARY-OVERBURDEN
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*6/25/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/25/2009*	*6/25/2009*	*7/1/2009*	*7/7/2009*	*7/1/2009*
Parameters	***Units***										
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pesticides											
4,4'-DDD	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1016 (PCB-1016)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221 (PCB-1221)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232 (PCB-1232)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242 (PCB-1242)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248 (PCB-1248)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254 (PCB-1254)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260 (PCB-1260)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
beta-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
gamma-BHC (Lindane)	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.070	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Discrete Compounds		0	0	0	0	1	0	0	0	0	0

Notes:

µg/L Micrograms per liter.
J Estimated concentration.
U Not present at or above the associated value.
UJ Estimated reporting limit.

2009 ANALYTICAL RESULTS SUMMARY-OVERBURDEN
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Location:		*8140*	*9110*	*9115*	*9120*	*9125*	*9130*	*9140*
Sample ID:		*LC-8140-709*	*LC-9110-709*	*LC-9115-709*	*LC-9120-709*	*LC-9125-709*	*LC-9130-709*	*LC-9140-709*
Sample Date:		*7/1/2009*	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/7/2009*	*7/7/2009*
Parameters	***Units***							
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds		0	0	0	0	0	0	0

TABLE 3.3

2009 ANALYTICAL RESULTS SUMMARY-OVERBURDEN
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*7/1/2009*	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/7/2009*	*7/7/2009*
Parameters	***Units***							
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2,4-Dinitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 UJ	25 UJ
2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	ug/L	25 UJ	25 U	25 U	25 U	25 U	25 UJ	25 UJ
4,6-Dinitro-2-methylphenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 UJ	25 UJ
4-Bromophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 UJ	25 UJ
Acenaphthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Benzo(k)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	ug/L	25 UJ	25 UJ	25 UJ	25 UJ	1.3 J	1.6 J	25 UJ
Benzyl Alcohol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	ug/L	1.9 J	10 U	1.5 J	10 U	10 U	5.2 J	10 U
Butyl benzylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U

2009 ANALYTICAL RESULTS SUMMARY-OVERBURDEN
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

	Sample Date:		*7/1/2009*	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/7/2009*	*7/7/2009*
Parameters		*Units*							
Volatile Organic Compounds									
1,1,1-Trichloroethane		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		ug/L	2.7 J	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		ug/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Hexachloroethane		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		ug/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Isophorone		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		ug/L	25 UJ	25 U	25 U	25 U	25 U	25 UJ	25 UJ
Phenanthrene		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	Discrete Compounds		2	0	1	0	1	2	0

TABLE 3.3

2009 ANALYTICAL RESULTS SUMMARY-OVERBURDEN
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*7/1/2009*	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/7/2009*	*7/7/2009*
Parameters	***Units***							
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pesticides								
4,4'-DDD	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	ug/L	0.084	0.050 U	0.050 U	0.090	0.050 U	0.050 U	0.050 U
alpha-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1016 (PCB-1016)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221 (PCB-1221)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232 (PCB-1232)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242 (PCB-1242)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248 (PCB-1248)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254 (PCB-1254)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260 (PCB-1260)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
beta-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.13	0.050 U	0.050 U	0.050 U
Dieldrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
gamma-BHC (Lindane)	ug/L	0.050 U	0.050 U	0.050 U	0.15	0.050 U	0.050 U	0.050 U
gamma-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Discrete Compounds		1	0	0	3	0	0	0

Notes:

µg/L Micrograms per liter.
J Estimated concentration.
U Not present at or above the associated value.
UJ Estimated reporting limit.

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Location:		*5221*	*6209*	*7205*	*8210*	*9205*	*9210*	*10205*	*10210A*	*10210B*
Sample ID:		*LC-5221-609*	*LC-6209-609*	*LC-7205-609*	*LC-8210-609*	*LC-9205-609*	*LC-9210-609*	*LC-10205-609*	*LC-10210A-609*	*LC-10210B-709*
Sample Date:		*7/8/2009*	*7/8/2009*	*7/8/2009*	*7/15/2009*	*7/15/2009*	*7/13/2009*	*7/13/2009*	*7/15/2009*	*7/9/2009*
Parameters	***Units***									
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	ug/L	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
1,2-Dichloropropane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Benzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	ug/L	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Chlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Chloroform (Trichloromethane)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	ug/L	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
cis-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds		0	0	0	0	0	0	0	0	0

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*7/8/2009*	*7/8/2009*	*7/8/2009*	*7/15/2009*	*7/15/2009*	*7/13/2009*	*7/13/2009*	*7/15/2009*	*7/9/2009*
Parameters	***Units***									
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds										
1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	10 U	25 U
2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	ug/L	25 U	25 U	25 U	25 UJ	25 UJ	25 U	25 U	25 UJ	25 U
4-Bromophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	25 UJ	25 UJ	25 UJ	25 U	25 U	25 UJ	25 UJ	25 U	25 UJ
4-Nitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	ug/L	25 U	25 U	25 U	1.0 J	25 UJ	25 U	25 U	5.8 J	25 U
Benzyl Alcohol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U	10 U	1.2 J	10 U	10 U	10 U	10 U	2.5 J	10 U
Butyl benzylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*7/8/2009*	*7/8/2009*	*7/8/2009*	*7/15/2009*	*7/15/2009*	*7/13/2009*	*7/13/2009*	*7/15/2009*	*7/9/2009*
Parameters	***Units***									
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	54	10 U	10 U
Hexachlorobutadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	25 U	25 U	25 U	25 UJ	25 UJ	25 U	25 U	25 UJ	25 U
Phenanthrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds		0	0	1	1	0	0	1	2	0

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*7/8/2009*	*7/8/2009*	*7/8/2009*	*7/15/2009*	*7/15/2009*	*7/13/2009*	*7/13/2009*	*7/15/2009*	*7/9/2009*
Parameters	***Units***									
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pesticides										
4,4'-DDD	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.026 J	0.047 J	0.29	0.050 U	0.064
alpha-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1016 (PCB-1016)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221 (PCB-1221)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232 (PCB-1232)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242 (PCB-1242)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248 (PCB-1248)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254 (PCB-1254)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260 (PCB-1260)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
beta-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.044 J	0.055	0.075	0.092	0.050 U	0.032 J
Dieldrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.17 U	0.10 U	0.10 U
gamma-BHC (Lindane)	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.038 J	0.062	0.096	0.050 U	0.038 J
gamma-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	ug/L	0.050 U	R	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Discrete Compounds		0	0	0	1	3	3	3	0	3

Notes:

µg/L Micrograms per liter.
J Estimated concentration.
R Rejected.
U Not present at or above the associated value.
UJ Estimated reporting limit.

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Location:		*10210B*	*10210C*	*10215*	*10225A*	*10225B*	*10225B*	*10225C*	*10270*	*10272*
Sample ID:		*LC-8215-709*	*LC-10210C-609*	*LC-10215-609*	*LC-10225A-609*	*LC-10225B-609*	*LC-8225-609*	*LC-10225C-609*	*LC-10270-609*	*LC-10272-609*
Sample Date:		*7/9/2009*	*7/13/2009*	*7/14/2009*	*7/15/2009*	*7/15/2009*	*7/15/2009*	*7/13/2009*	*7/8/2009*	*7/8/2009*
		(Duplicate)					*(Duplicate)*			
Parameters	***Units***									
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	ug/L	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
1,2-Dichloropropane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Benzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	ug/L	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Chlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	ug/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
cis-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	ug/L	10 U	10 U	10 U	10 U	2.1 J	2.1 J	10 U	10 U	10 U
trans-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	6.8 J	10 U	10 U
Vinyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds		0	0	0	0	1	1	1	0	0

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*7/9/2009 (Duplicate)*	*7/13/2009*	*7/14/2009*	*7/15/2009*	*7/15/2009*	*7/15/2009 (Duplicate)*	*7/13/2009*	*7/8/2009*	*7/8/2009*
Parameters	***Units***									
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Semi-volatile Organic Compounds										
1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	4.5 J	10 U	10 U
1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	ug/L	25 U	25 U	25 U	25 UJ	25 UJ	25 UJ	25 U	25 U	25 U
4-Bromophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	25 UJ	25 UJ	25 UJ	25 U	25 U	25 U	25 UJ	25 UJ	25 UJ
4-Nitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	ug/L	25 U	25 U	25 U	14 J	25 UJ	25 UJ	25 U	25 U	25 U
Benzyl Alcohol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	3.3 J	1.1 J	10 U	1.5 J
Butyl benzylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*7/9/2009 (Duplicate)*	*7/13/2009*	*7/14/2009*	*7/15/2009*	*7/15/2009*	*7/15/2009 (Duplicate)*	*7/13/2009*	*7/8/2009*	*7/8/2009*
Parameters	***Units***									
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	10 U	10 U	10 U	1.1 J	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	25 U	25 U	25 U	25 UJ	25 UJ	25 UJ	25 U	25 U	25 U
Phenanthrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Discrete Compounds		0	0	0	2	0	1	2	0	1

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Date:		*7/9/2009 (Duplicate)*	*7/13/2009*	*7/14/2009*	*7/15/2009*	*7/15/2009*	*7/15/2009 (Duplicate)*	*7/13/2009*	*7/8/2009*	*7/8/2009*
Parameters	***Units***									
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pesticides										
4,4'-DDD	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	ug/L	0.050	0.050 U	0.062	0.050 U	0.032 J	0.050 U	0.12	0.050 U	0.038 J
alpha-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1016 (PCB-1016)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221 (PCB-1221)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232 (PCB-1232)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242 (PCB-1242)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248 (PCB-1248)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254 (PCB-1254)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260 (PCB-1260)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
beta-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	ug/L	0.028 J	0.048 J	0.035 J	0.060	0.061	0.050 U	0.10	0.050 U	0.050 U
Dieldrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
gamma-BHC (Lindane)	ug/L	0.033 J	0.050 U	0.048 J	0.050 U	0.028 J	0.050 U	0.12	0.025 J	0.028 J
gamma-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Discrete Compounds		3	1	3	1	3	0	3	1	2

Notes:

µg/L Micrograms per liter.
J Estimated concentration.
R Rejected.
U Not present at or above the associated value.
UJ Estimated reporting limit.

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Sample Location:		***10278***
Sample ID:		***LC-10278-609***
Sample Date:		***7/8/2009***
Parameters	***Units***	
Volatile Organic Compounds		
1,1,1-Trichloroethane	ug/L	10 U
1,1,2,2-Tetrachloroethane	ug/L	10 U
1,1,2-Trichloroethane	ug/L	10 U
1,1-Dichloroethane	ug/L	10 U
1,1-Dichloroethene	ug/L	10 U
1,2-Dichloroethane	ug/L	10 U
1,2-Dichloropropane	ug/L	10 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	10 U
2-Hexanone	ug/L	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	10 U
Acetone	ug/L	10 U
Benzene	ug/L	10 U
Bromodichloromethane	ug/L	10 U
Bromoform	ug/L	10 U
Bromomethane (Methyl Bromide)	ug/L	10 U
Carbon disulfide	ug/L	10 U
Carbon tetrachloride	ug/L	10 U
Chlorobenzene	ug/L	10 U
Chloroethane	ug/L	10 U
Chloroform (Trichloromethane)	ug/L	10 U
Chloromethane (Methyl Chloride)	ug/L	10 U
cis-1,2-Dichloroethene	ug/L	10 U
cis-1,3-Dichloropropene	ug/L	10 U
Dibromochloromethane	ug/L	10 U
Ethylbenzene	ug/L	10 U
Methylene chloride	ug/L	10 U
Styrene	ug/L	10 U
Tetrachloroethene	ug/L	10 U
Toluene	ug/L	10 U
trans-1,2-Dichloroethene	ug/L	10 U
trans-1,3-Dichloropropene	ug/L	10 U
Trichloroethene	ug/L	10 U
Vinyl acetate	ug/L	10 U
Vinyl chloride	ug/L	10 U
Xylene (total)	ug/L	10 U
Discrete Compounds		0

TABLE 3.4

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

	Sample Date:	*7/8/2009*
Parameters	***Units***	
Volatile Organic Compounds		
1,1,1-Trichloroethane	ug/L	10 U
Semi-volatile Organic Compounds		
1,2,4-Trichlorobenzene	ug/L	10 U
1,2-Dichlorobenzene	ug/L	10 U
1,3-Dichlorobenzene	ug/L	10 U
1,4-Dichlorobenzene	ug/L	10 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	10 U
2,4,5-Trichlorophenol	ug/L	25 U
2,4,6-Trichlorophenol	ug/L	10 U
2,4-Dichlorophenol	ug/L	10 U
2,4-Dimethylphenol	ug/L	10 U
2,4-Dinitrophenol	ug/L	25 U
2,4-Dinitrotoluene	ug/L	10 U
2,6-Dinitrotoluene	ug/L	10 U
2-Chloronaphthalene	ug/L	10 U
2-Chlorophenol	ug/L	10 U
2-Methylnaphthalene	ug/L	10 U
2-Methylphenol	ug/L	10 U
2-Nitroaniline	ug/L	25 U
2-Nitrophenol	ug/L	10 U
3,3'-Dichlorobenzidine	ug/L	10 U
3-Nitroaniline	ug/L	25 U
4,6-Dinitro-2-methylphenol	ug/L	25 U
4-Bromophenyl phenyl ether	ug/L	10 U
4-Chloro-3-methylphenol	ug/L	10 U
4-Chloroaniline	ug/L	10 U
4-Chlorophenyl phenyl ether	ug/L	10 U
4-Methylphenol	ug/L	10 U
4-Nitroaniline	ug/L	25 UJ
4-Nitrophenol	ug/L	25 U
Acenaphthene	ug/L	10 U
Acenaphthylene	ug/L	10 U
Anthracene	ug/L	10 U
Benzo(a)anthracene	ug/L	10 U
Benzo(a)pyrene	ug/L	10 U
Benzo(b)fluoranthene	ug/L	10 U
Benzo(g,h,i)perylene	ug/L	10 U
Benzo(k)fluoranthene	ug/L	10 U
Benzoic acid	ug/L	25 U
Benzyl Alcohol	ug/L	10 U
bis(2-Chloroethoxy)methane	ug/L	10 U
bis(2-Chloroethyl)ether	ug/L	10 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U
Butyl benzylphthalate	ug/L	10 U

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

	Sample Date:	*7/8/2009*
Parameters	***Units***	
Volatile Organic Compounds		
1,1,1-Trichloroethane	ug/L	10 U
Chrysene	ug/L	10 U
Dibenz(a,h)anthracene	ug/L	10 U
Dibenzofuran	ug/L	10 U
Diethyl phthalate	ug/L	10 U
Dimethyl phthalate	ug/L	10 U
Di-n-butylphthalate	ug/L	10 U
Di-n-octyl phthalate	ug/L	10 U
Fluoranthene	ug/L	10 U
Fluorene	ug/L	10 U
Hexachlorobenzene	ug/L	10 U
Hexachlorobutadiene	ug/L	10 U
Hexachlorocyclopentadiene	ug/L	10 U
Hexachloroethane	ug/L	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U
Isophorone	ug/L	10 U
Naphthalene	ug/L	10 U
Nitrobenzene	ug/L	10 U
N-Nitrosodi-n-propylamine	ug/L	10 U
N-Nitrosodiphenylamine	ug/L	10 U
Pentachlorophenol	ug/L	25 U
Phenanthrene	ug/L	10 U
Phenol	ug/L	10 U
Pyrene	ug/L	10 U
Discrete Compounds		0

2009 ANALYTICAL RESULTS SUMMARY-BEDROCK
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

		Sample Date:	*7/8/2009*
	Parameters	***Units***	
	Volatile Organic Compounds		
	1,1,1-Trichloroethane	ug/L	10 U
	Pesticides		
	4,4'-DDD	ug/L	0.10 U
	4,4'-DDE	ug/L	0.10 U
	4,4'-DDT	ug/L	0.10 U
	Aldrin	ug/L	0.050 U
	alpha-BHC	ug/L	0.072
	alpha-Chlordane	ug/L	0.050 U
	Aroclor-1016 (PCB-1016)	ug/L	1.0 U
	Aroclor-1221 (PCB-1221)	ug/L	1.0 U
	Aroclor-1232 (PCB-1232)	ug/L	1.0 U
	Aroclor-1242 (PCB-1242)	ug/L	1.0 U
	Aroclor-1248 (PCB-1248)	ug/L	1.0 U
	Aroclor-1254 (PCB-1254)	ug/L	1.0 U
	Aroclor-1260 (PCB-1260)	ug/L	1.0 U
	beta-BHC	ug/L	0.050 U
	delta-BHC	ug/L	0.031 J
	Dieldrin	ug/L	0.10 U
	Endosulfan I	ug/L	0.050 U
	Endosulfan II	ug/L	0.10 U
	Endosulfan sulfate	ug/L	0.10 U
	Endrin	ug/L	0.10 U
	Endrin ketone	ug/L	0.10 U
	gamma-BHC (Lindane)	ug/L	0.047 J
	gamma-Chlordane	ug/L	0.050 U
	Heptachlor	ug/L	0.050 U
	Heptachlor epoxide	ug/L	0.050 U
	Methoxychlor	ug/L	0.50 U
	Toxaphene	ug/L	5.0 U
	Discrete Compounds		3

Notes:

µg/L	Micrograms per liter.
J	Estimated concentration.
R	Rejected.
U	Not present at or above the associated value.
UJ	Estimated reporting limit.

TABLE 3.5

SUMMARY OF DETECTED COMPOUNDS IN SELECT WELLS
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Well Number:	*10210A*																		
SampleDate:	07/24/90	08/22/91	08/26/92	08/11/93	05/25/95	07/01/96	07/10/97	06/26/98	06/23/99	06/21/00	05/18/01	06/13/02	05/27/03	06/03/04	06/28/05	07/06/06	07/26/07	07/17/08	07/15/09
Volatiles (ug/L)																			
1,1,2,2-Tetrachloroethane																			
1,1,2-Trichloroethane																			
1,1-Dichloroethane																			
1,2-Dichloroethene (total)																			
2-Butanone									2J					4J					
2-Hexanone									3J										
Acetone	14C			13B				120J			10J								
Benzene																			
Carbon Disulfide					20	310					6J			6J	1.6 J	1 J	8J	24	
Chlorobenzene																			
Chloroform																			
Ethylbenzene																			
Methylene Chloride																			
Tetrachloroethene																			
Toluene									2J						2.3 J				
Trichloroethene																			
Vinyl Acetate																			
Vinyl Chloride																			
Xylene (total)																			
Semi-volatiles (ug/L)																			
1,2,4-Trichlorobenzene																			
1,2-Dichlorobenzene																			
1,3-Dichlorobenzene																			
1,4-Dichlorobenzene																			
2-Butanone (Methyl Ethyl Ketone)												3J							
2,4,5-Trichlorophenol																			
2,4,6-Trichlorophenol																			
2,4-Dichlorophenol																			
2,4-Dimethylphenol																			
2-Chloronaphthalene																			
2-Chlorophenol																			
2-Methylphenol																			
2-Nitrophenol																			
4-Chloro-3-methylphenol																			
4-Methylphenol																			
Benzoic Acid							12J							3J	2.7 J				5.8 J
Benzyl Alcohol																			
Bis(2-Chloroethyl)Ether																			
bis(2-Ethylhexyl)Phthalate		12	21	31	51									1J	1.7 J	8 J			2.5 J
Dimethyl Phthalate	16																		
Di-n-Octyl Phthalate	3B																		
Hexachlorobenzene																			
Naphthalene																			
Pentachlorophenol																			
Phenol									1J					1J	1.7 J				

TABLE 3.5

SUMMARY OF DETECTED COMPOUNDS IN SELECT WELLS
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Well Number:	*10210A*																		
SampleDate:	07/24/90	08/22/91	08/26/92	08/11/93	05/25/95	07/01/96	07/10/97	06/26/98	06/23/99	06/21/00	05/18/01	06/13/02	05/27/03	06/03/04	06/28/05	07/06/06	07/26/07	07/17/08	07/15/09
Pesticides/PCBs (ug/L)																			
4,4'-DDD																			
Aldrin																			
Alpha-BHC									0.28										
Alpha-Chlordane																			
Beta-BHC									0.035J					0.011J				0.015 J	
Delta-BHC														0.043J					
Dieldrin																			
Endosulfan I									0.046J										
Endosulfan II																			
Endosulfan Sulfate																			
Endrin																			
Gamma-BHC (Lindane)									0.10J										
Gamma-Chlordane																			
Heptachlor																			
Heptachlor epoxide																			

Notes:
B - Found in Blank.
ND or U - Non-Detected at the associated estimated value.
C - Confirmed data.
J - Estimated Concentration.
JN Presumptively present at the associated estimated value.
D - Diluted Sampled.
E - Exceeded calibration range of the instrument.
P - Greater than 25% difference for detected concentrations between the two GC columns in the pesticide target analyte. Lower of two values is reported.

TABLE 3.5

SUMMARY OF DETECTED COMPOUNDS IN SELECT WELLS
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Well Number:	*10210B*																			
SampleDate:	07/24/90	08/22/91	08/26/92	08/11/93	06/15/94	06/01/95	07/05/96	07/01/97	06/18/98	06/24/99	06/15/00	05/17/01	06/10/02	05/23/03	06/07/04	06/24/05	06/28/06	07/26/07	07/17/08	07/15/09
Volatiles (ug/L)																				
1,1,2,2-Tetrachloroethane																				
1,1,2-Trichloroethane																				
1,1-Dichloroethane																				
1,2-Dichloroethene (total)																				
2-Butanone														23						
2-Hexanone																				
Acetone			31		12B	23						12J								
Benzene																				
Carbon Disulfide									8J	2J		14	3J	2 J		1.4 J	1 J	6J		
Chlorobenzene															1J					
Chloroform																				
Ethylbenzene																				
Methylene Chloride																				
Tetrachloroethene															9J					
Toluene										2J	1J					1.1 J				
Trichloroethene																				
Vinyl Acetate																				
Vinyl Chloride																				
Xylene (total)																				
Semi-volatiles (ug/L)																				
1,2,4-Trichlorobenzene														3 J						
1,2-Dichlorobenzene																				
1,3-Dichlorobenzene																				
1,4-Dichlorobenzene																				
2-Butanone (Methyl Ethyl Ketone)																				
2,4,5-Trichlorophenol																				
2,4,6-Trichlorophenol																				
2,4-Dichlorophenol																				
2,4-Dimethylphenol																				
2-Chloronaphthalene																				
2-Chlorophenol																				
2-Methylphenol																				
2-Nitrophenol																				
4-Chloro-3-methylphenol																				
4-Methylphenol																				
Benzoic Acid																	2 J			
Benzyl Alcohol																				
Bis(2-Chloroethyl)Ether																				
bis(2-Ethylhexyl)Phthalate	7B	13		11				55	6J						4J	4.5 J	3 J			
Dimethyl Phthalate																				
Di-n-Octyl Phthalate												3J								
Hexachlorobenzene														1 J						
Naphthalene																				
Pentachlorophenol																				
Phenol		3																		

TABLE 3.5

SUMMARY OF DETECTED COMPOUNDS IN SELECT WELLS
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Well Number:	*10210B*																			
SampleDate:	07/24/90	08/22/91	08/26/92	08/11/93	06/15/94	06/01/95	07/05/96	07/01/97	06/18/98	06/24/99	06/15/00	05/17/01	06/10/02	05/23/03	06/07/04	06/24/05	06/28/06	07/26/07	07/17/08	07/15/09
Pesticides/PCBs (ug/L)																				
4,4'-DDD															0.011J					
Aldrin																	0.0089J			
Alpha-BHC														19		0.37	0.58	0.016J		0.064/0.050
Alpha-Chlordane																				
Beta-BHC														1.9	0.53	0.082 p	0.082			
Delta-BHC														0.56 J	0.15		0.047 J			0.032 J/0.028 J
Dieldrin														0.13 J						
Endosulfan I														0.11 J						
Endosulfan II																				
Endosulfan Sulfate																				
Endrin																				
Gamma-BHC (Lindane)														2.1	0.39	0.046 J	0.099			0.038 J/0.033 J
Gamma-Chlordane														0.15 J						
Heptachlor														0.35 J						
Heptachlor epoxide																				

Notes:

B - Found in Blank.
ND or U - Non-Detected at the associated estimate
C - Confirmed data.
J - Estimated Concentration.
JN Presumptively present at the associated
D - Diluted Sampled.
E - Exceeded calibration range of the instru
P - Greater than 25% difference for detected

TABLE 3.5

SUMMARY OF DETECTED COMPOUNDS IN SELECT WELLS
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Well Number:	*10210C*																			
SampleDate:	07/25/90	08/22/91	08/26/92	08/11/93	06/08/94	06/01/95	07/01/96	07/01/97	06/22/98	06/24/99	06/15/00	05/17/01	06/10/02	05/23/03	06/07/04	06/23/05	06/28/06	07/26/07	07/16/08	07/15/09
Volatiles (ug/L)																				
1,1,2,2-Tetrachloroethane																				
1,1,2-Trichloroethane																				
1,1-Dichloroethane																				
1,2-Dichloroethene (total)																				
2-Butanone																				
2-Hexanone																				
Acetone			10B	23B	19B					2100	8J	9J				1.9 J				
Benzene																				
Carbon Disulfide											3J								2 J	
Chlorobenzene																	2 J			
Chloroform																				
Ethylbenzene																				
Methylene Chloride																				
Tetrachloroethene																	6 J			
Toluene															29					
Trichloroethene																				
Vinyl Acetate																				
Vinyl Chloride																				
Xylene (total)																				
Semi-volatiles (ug/L)																				
1,2,4-Trichlorobenzene																	6 J			
1,2-Dichlorobenzene																				
1,3-Dichlorobenzene																				
1,4-Dichlorobenzene																				
2-Butanone (Methyl Ethyl Ketone)																				
2,4,5-Trichlorophenol																				
2,4,6-Trichlorophenol																				
2,4-Dichlorophenol																				
2,4-Dimethylphenol																				
2-Chloronaphthalene																				
2-Chlorophenol																				
2-Methylphenol																				
2-Nitrophenol																				
4-Chloro-3-methylphenol																				
4-Methylphenol						29	110	62	0.6J											
Benzoic Acid																				
Benzyl Alcohol																				
Bis(2-Chloroethyl)Ether																				
bis(2-Ethylhexyl)Phthalate	7B	13		38											5J		5 J			
Dimethyl Phthalate																				
Di-n-Octyl Phthalate																				
Hexachlorobenzene																				
Naphthalene																				
Pentachlorophenol																				
Phenol		6				22		22												

TABLE 3.5

SUMMARY OF DETECTED COMPOUNDS IN SELECT WELLS
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Well Number:	*10210C*																			
SampleDate:	07/25/90	08/22/91	08/26/92	08/11/93	06/08/94	06/01/95	07/01/96	07/01/97	06/22/98	06/24/99	06/15/00	05/17/01	06/10/02	05/23/03	06/07/04	06/23/05	06/28/06	07/26/07	07/16/08	07/15/09
Pesticides/PCBs (ug/L)																				
4,4'-DDD																				
Aldrin																	0.061 J			
Alpha-BHC																0.083	0.45 J			
Alpha-Chlordane																				
Beta-BHC															0.017J		0.048 J			
Delta-BHC																	0.052 J			0.048 J
Dieldrin																				
Endosulfan I																				
Endosulfan II																				
Endosulfan Sulfate																				
Endrin																	0.14 J			
Gamma-BHC (Lindane)																	0.11 J			
Gamma-Chlordane																	0.018 J			
Heptachlor																				
Heptachlor epoxide																				

Notes:
B - Found in Blank.
ND or U - Non-Detected at the associated estimate
C - Confirmed data.
J - Estimated Concentration.
JN Presumptively present at the associated
D - Diluted Sampled.
E - Exceeded calibration range of the instru
P - Greater than 25% difference for detected

TABLE 3.5

SUMMARY OF DETECTED COMPOUNDS IN SELECT WELLS
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Well Number:	*10135*																	
SampleDate:	08/26/92	08/19/93	06/22/94	06/01/95	06/27/96	07/07/97	06/17/98	06/16/99	06/22/00	05/11/01	06/12/02	05/19/03	05/28/04	06/17/05	06/26/06	07/18/07	07/23/08	07/15/09
Volatiles (ug/L)																		
1,1,2,2-Tetrachloroethane		12			26		94J	32/29	27J/26J	100J/120J	500U/56	38				16J		24/25
1,1,2-Trichloroethane					14		29J	15/12	14J/16J	29J/34J	500U/27					15J		8.7 J/9.1 J
1,1-Dichloroethane		15						4J/3J	4J/4J	4J/4J	500U/4J	3 J				2J		
1,2-Dichloroethene (total)	700	840			560		58J	67/70	67J/70J	60J/59J		490 J			682 J	50J	111 J	106/109
2-Butanone		5200							10UJ/10J	12J/11J								5.8 J/6.1 J
2-Hexanone																		
Acetone		270	100B		60		110J		28J/46J		500U/72	74			200 J	53J		42/37
Benzene			6000E	4900D	4800	5600/5000	5300J	5600/5700	6400/6900J	7600/8500J	5900/6400	5500			6800	7100	5300	7600/7500
Carbon Disulfide								ND/2J								2J		
Chlorobenzene	2600	1700		2000D	1500	2300/ND	1900J	1800/1900	2300J/2300J	2700J/3000J	2200/2400	1900		2000	2400	2100	1400	2900 J/3000 J
Chloroform		100			110		150J	120/110	100J/130J	150J/160J	500U/160	110			110 J	140J	99 J	96/97
Ethylbenzene		13					12	10J/9J	12J/12J	22J/24J	500U/15	10				10J		10/10
Methylene Chloride		41			11				24J/24J		500U/39	26			44 J	32J		25/24
Tetrachloroethene							40J	13/12	16J/14J	50J/61J	500U/38	18				13J		14/14
Toluene	2700	1700E	21500BE	18000D	14000	19000/17000	16000J	16000/17000	21000J/21000J	22000/24000	20000J/19000	15000		16000	21000	23000	13000	24000/24000
Trichloroethene		24			36		170J	70/58	60J/72J	140J/180J	130J/160	91			46 J	89J	27 J	89/91
Vinyl Acetate	6800		12B															
Vinyl Chloride					50		48J	62/61	110J/85J	75J/66J	500U/48	51						27/17
Xylene (total)		47	10B		28		55J	43/44	42J/44J		500U/51	29				37J		44/53
Semi-volatiles (ug/L)																		
1,2,4-Trichlorobenzene		74	87B				78J	65J/45J	45J/36J	42J/65J		97 J		4.5 J	63	47J	28	110/110
1,2-Dichlorobenzene		35						30J/24J	22J/18J	ND/48J		59 J		36 J	37	31J	10 J	52/68
1,3-Dichlorobenzene															3 J	87J		4.1 J/5.5 J
1,4-Dichlorobenzene	110	94	91					74J/61J	59J/52J	69J/110J		160 J		100 J	100	84J	24	100 J/150 J
2-Butanone (Methyl Ethyl Ketone)																		5.8 J/6.1 J
2,4,5-Trichlorophenol		70					38J		0.9J/ND						8 J			
2,4,6-Trichlorophenol									1J/ND								6 J	23/28
2,4-Dichlorophenol	1200B	420	610	150		2100/2100	2000	610/690	1400J/470J	620J/1200J	1500J/1800J	1700		420	250	490	150	1100/1200
2,4-Dimethylphenol									ND/2J									
2-Chloronaphthalene				150						370J/550J								
2-Chlorophenol							28J	25J/ND							18		17 J	26/31
2-Methylphenol		51					55J	35J/42J	160J/ND	ND/41J		50 J		25 J	33	34J	140	50 J/66 J
2-Nitrophenol									ND/1J									
4-Chloro-3-methylphenol								33J/25J				41 J					26	97/95
4-Methylphenol		80					130J	120/95J	99J/300J	86J/130J		210 J		49 J		120J	110	140 J/170 J
Benzoic Acid				6400D	4000	30000J/27000J	23000J	5000/4300	19000J/4700J	4400J/6200J	25000/31000	26000		1400 J	14000 J	14000	7600 J	54000 J/39000 J
Benzyl Alcohol				380		1900/1600	2700	540/680	14000/3200J	330J/630J	1700J/2000	640		23 J	48	580	38	1200/1300
Bis(2-Chloroethyl)Ether		23					24J	26J/25J						24 J	24	30J	16 J	28/29
bis(2-Ethylhexyl)Phthalate		50							41J/24/J						53			4.4 J/4.2 J
Dimethyl Phthalate																		
Di-n-Octyl Phthalate																		
Hexachlorobenzene																		
Naphthalene								2000J/1400J	4000J/1800J	1100/1400				1800 J				
Pentachlorophenol		52																
Phenol		96	91	140				120/96J		ND/51J		180 J			140	130J	96	140 J/160 J

TABLE 3.5

SUMMARY OF DETECTED COMPOUNDS IN SELECT WELLS
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

Well Number:	*10135*																	
SampleDate:	08/26/92	08/19/93	06/22/94	06/01/95	06/27/96	07/07/97	06/17/98	06/16/99	06/22/00	05/11/01	06/12/02	05/19/03	05/28/04	06/17/05	06/26/06	07/18/07	07/23/08	07/15/09
Pesticides/PCBs (ug/L)																		
4,4'-DDD								0.020J/0.21	0.071J/0.13J					0.19 J		0.081J	0.13 J	
Aldrin	0.53	0.24P						0.21J/0.74JN		0.95JN/1.5JN	0.12J/0.12J					0.073J	0.052 J	0.55 J/0.55 J
Alpha-BHC	84	42C	24CEP	28D	29	39/39	59	37J/40	50/50	43J/50J	39/43	49		15		12	17	27 J/32 J
Alpha-Chlordane											0.031J/0.017J					0.011J		
Beta-BHC				10D	11	8.1/8.6	12	11J/12	15/16	16J/16J	13J/14J	15 J		3.4	7.1	3.2	4.4	9.1 J/11 J
Delta-BHC	15	9.8P	7.5CE	4.7	5.2	ND/5.1	8.9	9.6J/11	14/13	10J/12J	9.0J/11J	12		9.1	13	4.7	6.3	11 J/12
Dieldrin																		
Endosulfan I								0.43J/0.34		1.5JN/1.6JN								
Endosulfan II									0.52J/0.69J					0.15 J				1.6 J/2.3
Endosulfan Sulfate		0.43P						0.17J/0.18	0.17J/0.10UJ			1.3 J				0.34J	0.37 J	1.5 J
Endrin			0.15P													0.034J		1.3 J/1.9
Gamma-BHC (Lindane)	33	19.5	20.4CE			13.2/14.8	6.5J	4.1J/5.5	8.0/6.4	5J/7.3	6.1J/7.1J	7.1			4.8	2.1	2	6.2 J/7.4 J
Gamma-Chlordane									0.16J/0.18J		0.34J/0.29J				.33 J	0.017J		
Heptachlor								0.68JN/0.63				0.61 J		0.053		0.092J	0.19 J	
Heptachlor epoxide								0.058J/0.043J	0.029J/0.031J		0.016J/0.025J	2.2 J				0.29	0.13 J	1.6 J/1.7 J

Notes:

B - Found in Blank.
ND or U - Non-Detected at the associated estimate
C - Confirmed data.
J - Estimated Concentration.
JN Presumptively present at the associated
D - Diluted Sampled.
E - Exceeded calibration range of the instru
P - Greater than 25% difference for detected

TABLE 3.6A

1140 SERIES PIEZOMETERS WATER LEVELS-2009
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

A WELLS

Well (1)	**1144**	**1143**	**1142**	**1141**	**Tile Drain**	**1140**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	573.02	571.94	570.97	566.56	561.70	564.74
June-09	571.17	570.82	570.39	566.35	561.70	564.08
September-09	570.77	570.29	569.96	566.45	561.70	564.45
December-09	572.36	570.75	570.09	566.42	561.70	565.05

B WELLS

Well (1)	**1144**	**1143**	**1142**	**1141**	**Tile Drain**	**1140**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	573.26	571.65	568.21	566.89	561.70	564.95
June-09	571.10	570.97	568.07	566.84	561.70	564.50
September-09	570.79	570.42	568.25	567.05	561.70	564.82
December-09	572.28	570.29	567.75	566.69	561.70	565.05

C WELLS

Well (1)	**1144**	**1143**	**1142**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	572.53	569.91	566.54	561.70
June-09	571.02	569.69	566.64	561.70
September-09	570.75	569.58	566.58	561.70
December-09	571.80	569.07	566.34	561.70

D WELLS

Well (1)	**1144**	**1143**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	570.48	568.72	561.70
June-09	570.30	568.68	561.70
September-09	569.95	568.66	561.70
December-09	569.47	568.11	561.70

Note:
(1) = Wells listed in order from most distant outside of tile drain, to tile drain, then inside of tile drain.

TABLE 3.6B

1150 SERIES PIEZOMETERS WATER LEVELS-2009
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

A WELLS

Well (1)	*1154*	*1153*	*1151*	*Tile Drain*
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	571.18	571.62	567.12	561.85
June-09	569.86	568.99	567.04	561.85
September-09	569.22	569.14	567.14	561.85
December-09	568.77	570.57	567.23	561.85

B WELLS

Well (1)	**1154**	**1153**	**1151**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	568.08	569.92	567.69	561.85
June-09	567.61	568.64	567.79	561.85
September-09	568.26	569.17	567.90	561.85
December-09	568.27	569.98	567.91	561.85

C WELLS

Well (1)	**1154**	**1153**	**1151**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	569.41	576.64	569.31	561.85
June-09	568.16	569.97	568.92	561.85
September-09	568.21	570.17	568.25	561.85
December-09	568.23	576.67	568.18	561.85

D WELLS

Well (1)	**1153**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*
March-09	574.04	561.85
June-09	570.11	561.85
September-09	569.91	561.85
December-09	574.07	561.85

Note:
(1) = Wells listed in order from most distant outside of tile drains, to tile drain, then inside of tile drain.

TABLE 3.6C

1160 SERIES PIEZOMETERS WATER LEVELS-2009
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

A WELLS

Well (1)	**10176**	**1165**	**1163**	**1162**	**1161**	**Tile Drain**	**1160**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	572.01	570.80	568.61	569.57	565.64	560.60	565.33
June-09	568.84	570.66	568.72	569.77	566.04	560.60	565.62
September-09	569.14	570.37	568.93	569.61	565.92	560.60	565.69
December-09	571.62	570.37	568.64	569.26	565.65	560.60	565.57

B WELLS

Well (1)	**10176**	**1165**	**1163**	**1161**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	571.67	571.55	569.45	567.08	560.60
June-09	568.92	571.08	569.95	567.34	560.60
September-09	569.21	571.04	569.86	567.58	560.60
December-09	571.58	571.19	569.24	567.34	560.60

C WELLS

Well (1)	**10176**	**1165**	**1163**	**1162**	**1161**	**Tile Drain**	**1160**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	568.71	572.20	569.73	569.76	569.00	560.60	DRY
June-09	568.27	572.03	570.37	570.06	569.46	560.60	DRY
September-09	568.96	571.68	570.20	569.92	569.41	560.60	566.98
December-09	569.43	571.49	569.43	569.52	568.89	560.60	566.48

D WELLS

Well (1)	**10176**	**1165**	**1163**	**1162**	**1161**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	567.49	572.61	DRY	567.72	569.63	560.60
June-09	567.18	572.20	DRY	567.85	570.22	560.60
September-09	567.79	571.82	DRY	567.86	570.14	560.60
December-09	567.99	571.83	DRY	567.77	569.31	560.60

Note:
(1) = Wells listed in order from most distant outside of tile drain, to tile drain, then inside of tile drain.

TABLE 3.6D

1170 SERIES PIEZOMETERS WATER LEVELS-2009
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

A WELLS

Well (1)	**1174**	**1173**	**1172**	**1171**	**Tile Drain**	**1170**
Date	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***
March-09	571.73	568.37	566.51	564.59	555.60	563.29
June-09	571.34	567.98	566.63	564.83	555.60	563.16
September-09	570.65	568.17	566.65	564.57	555.60	563.12
December-09	570.71	568.47	566.61	564.24	555.60	563.15

B WELLS

Well (1)	**1174**	**1173**	**1172**	**1171**	**Tile Drain**	**1170**
Date	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***
March-09	571.03	569.86	570.23	563.76	555.60	571.00
June-09	571.21	569.59	569.45	563.99	555.60	564.04
September-09	571.19	569.79	569.22	563.85	555.60	565.66
December-09	570.46	569.86	568.68	563.51	555.60	572.45

C WELLS

Well (1)	**1174**	**1173**	**1172**	**1171**	**Tile Drain**
Date	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***
March-09	570.27	571.82	569.67	563.24	555.60
June-09	570.26	571.81	569.71	563.04	555.60
September-09	570.63	571.51	569.43	562.68	555.60
December-09	570.26	571.00	569.02	562.54	555.60

D WELLS

Well (1)	**1174**	**1173**	**Tile Drain**
Date	***(ft. AMSL)***	***(ft. AMSL)***	***(ft. AMSL)***
March-09	568.66	572.90	555.60
June-09	568.18	571.37	555.60
September-09	568.54	571.20	555.60
December-09	568.73	571.81	555.60

Note:
(1) = Wells listed in order from most distant outside of tile drain, to tile drain, then inside of tile drain.

TABLE 3.6E

1180 SERIES PIEZOMETERS WATER LEVELS-2009
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

A WELLS

Well (1)	**1184**	**1183**	**1181**	**Tile Drain**	**1180**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	564.68	564.97	567.05	560.00	563.25
June-09	564.21	564.69	566.41	560.00	563.09
September-09	563.81	564.72	566.82	560.00	563.13
December-09	564.15	564.67	566.78	560.00	563.03

B WELLS

Well (1)	**1184**	**1183**	**1181**	**Tile Drain**	**1180**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	565.13	565.25	567.61	560.00	561.55
June-09	563.90	565.05	566.43	560.00	560.95
September-09	563.90	565.40	566.82	560.00	561.22
December-09	564.52	565.17	567.63	560.00	561.46

C WELLS

Well (1)	**1184**	**1183**	**1181**	**Tile Drain**	**1180**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	569.98	568.03	570.82	560.00	DRY
June-09	566.58	567.24	567.86	560.00	DRY
September-09	566.90	567.45	568.06	560.00	DRY
December-09	569.23	567.82	570.26	560.00	DRY

D WELLS

Well (1)	**1184**	**1183**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	569.54	566.90	560.00
June-09	567.54	566.78	560.00
September-09	567.34	566.72	560.00
December-09	568.77	566.79	560.00

Note:
(1) = Wells listed in order from most distant outside of tile drain, to tile drain, then inside of tile drain.

TABLE 3.6F

1190 SERIES PIEZOMETERS WATER LEVELS-2009
LOVE CANAL LONG-TERM GROUNDWATER MONITORING PROGRAM
GLENN SPRINGS HOLDINGS, INC.

A WELLS

Well (1)	**1194**	**1193**	**1192**	**1191**	**Tile Drain**	**1190**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	564.67	565.86	564.68	565.26	554.80	565.33
June-09	563.91	565.30	563.93	565.51	554.80	564.08
September-09	563.87	565.38	563.91	565.55	554.80	564.52
December-09	564.28	565.60	564.26	565.29	554.80	565.93

B WELLS

Well (1)	**1194**	**1193**	**1192**	**1191**	**Tile Drain**	**1190**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	569.80	568.46	568.25	565.71	554.80	563.21
June-09	569.00	568.60	568.40	566.19	554.80	562.69
September-09	568.95	568.68	568.51	566.14	554.80	563.00
December-09	569.35	568.45	568.30	565.52	554.80	563.69

C WELLS

Well (1)	**1194**	**1193**	**1192**	**1191**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	574.34	570.70	569.45	564.56	554.80
June-09	570.65	570.92	569.72	564.43	554.80
September-09	570.78	570.66	569.82	564.38	554.80
December-09	574.27	570.16	569.48	564.28	554.80

D WELLS

Well (1)	**1194**	**1193**	**Tile Drain**
Date	*(ft. AMSL)*	*(ft. AMSL)*	*(ft. AMSL)*
March-09	573.75	571.61	554.80
June-09	572.04	571.49	554.80
September-09	571.67	571.01	554.80
December-09	573.19	570.72	554.80

Note:
(1) = Wells listed in order from most distant outside of tile drain, to tile drain, then inside of tile drain.

APPENDIX A

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

New York State Department of Environmental Conservation
Division of Environmental Remediation, 11th Floor
625 Broadway, Albany, New York 12233-7011
Phone: (518) 402-9553 **Fax:** (518) 402-9577
Website: www.dec.ny.gov

Alexander B. Grannis
Commissioner

45-Day Reminder Notice: Site Management Periodic Review

Clint Babcock
Project Manager
OCC/Glenn Springs Holdings, Inc.
5005 LBJ Freeway, Suite 1350
Dallas, TX 75244-6119

January 14, 2010
Site Name: Love Canal
Site No.: 932020
Site Address: In the area of 97th and 99th Streets
Niagara Falls, NY 14304

Dear Clint Babcock:

This is a reminder that as part of the last phase of a site's remedial program (i.e., "Site Management" (SM)), a progress report for your site is to be submitted by you, the site owner or Remedial Party, to the New York State Department of Environmental Conservation (Department) by **Monday, March 1, 2010**. This report, now referred to as the Periodic Review Report (PRR) documents the implementation of and compliance with the Site Management requirements for this site. SM is a concept defined in regulation (6 NYCRR 375-1.2(at)). A suggested outline for the PRR is enclosed. If the site is comprised of multiple properties or parcels, then you as the owner or Remedial Party must arrange to submit one PRR for all parcels that comprise the site.

Depending on the age of the remedial program for your site, the document(s) governing SM for your site will be different. Previously, SM requirements were contained in separate documents with specific titles (e.g., Operation, Maintenance, and Monitoring Plan or Soil Management Plan) and are now being incorporated into one comprehensive "Site Management Plan" (SMP). A SMP may contain one or all of the following elements as applicable to the site; a plan to maintain institutional and/or engineering controls ("IC/EC Plan"), a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"), and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the requirements for SM are normally stated in the decision document (e.g., Record of Decision) and/or the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), please sign and include the enclosed forms documenting that all SM requirements are being met. If there is some reason you cannot certify that all SM requirements are being met, you should indicate this and include a statement of explanation in the PRR with a schedule for addressing the problem(s). The Periodic Review process will not be considered complete until all necessary corrective measures are completed and any required controls are certified. Instructions for completing the certifications are enclosed.

If you have any questions, or need additional information, please contact Brian Sadowski, Project Manager at 716-851-7220.

Enclosures

ec: Brian Sadowski, Project Manager
Robert Knizek, Bureau Director
Greg Sutton/Marty Doster, Hazardous Waste Remediation Engineer, Region 9
Gary Litwin, DOH

Enclosure
Periodic Review Report (PRR) General Guidance

I. Introduction: (½-page or less)

A. Provide a brief summary of site, nature and extent of contamination, and remedial history.

B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
   1. progress made during the reporting period toward meeting the remedial objectives for the site
   2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.

C. Compliance
   1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
   2. Propose steps to be taken and a schedule to correct any areas of non-compliance.

D. Recommendations
   1. recommend whether any changes to the SMP are needed
   2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
   3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)

A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.

B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy and site that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

A. Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)

A. IC/EC Requirements and Compliance
   1. Describe each control, its objective, and how performance of the control is evaluated.
   2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
   3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
   4. Conclusions and recommendations for changes.

B. IC/EC Certification
   1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. **Monitoring Plan Compliance Report (if applicable)**

A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.

B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.

C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.

D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.

E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. **Operation & Maintenance (O&M) Plan Compliance Report (if applicable)**

A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.

B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.

C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify problems, their severity, and any suggested improvements requiring changes in the O&M Plan.

VII. **Overall PRR Conclusions and Recommendations**

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;

1. whether all requirements of each plan were met during the reporting period
2. any requirements not met such as new completed exposure pathways resulting in unacceptable risk
3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals

1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
2. If the requirements for site closure have been achieved, contact the Department's Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. **Additional Guidance**

A. Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Department's Project Manager for the site.

Enclosure 1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 932020

Site Name Love Canal

Site Address: ~~In the area of 97th and 99th Streets~~ 805 97th Street Zip Code: 14304
City/Town: Niagara Falls
County: Niagara
Allowable Use(s) (if applicable, does not address local zoning):
Site Acreage: ~~60.0~~ 40
Owner: ~~ZZ~~ Parcel 165.57-1-4 City of Niagara Falls, Parcel 161-73-1-2 Lee C. Armstrong, Parcel 161.65-1-5 Board of Education, and Remaining 229 Parcels Ucle Love Canal Inc.
Reporting Period: February 14, 2009 to February 28, 2010

Verification of Site Details **Box 2**

	YES	NO
1. Is the information in Box 1 correct?	☐	☒
If NO, are changes handwritten above or included on a separate sheet?	☒	
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?	☐	
3. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☒	☐
If YES, is documentation (or evidence that documentation has been previously submitted) included with this certification?	☒	
4. If use of the site is restricted, is the current use of the site consistent with those restrictions?	☒	☐
If NO, is an explanation included with this certification?	☐	
5. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☐
If YES, is the new information or evidence that new information has been previously submitted included with this Certification?	☐	
6. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), are the assumptions in the Qualitative Exposure Assessment still valid (must be certified every five years)?	☐	☐
If NO, are changes in the assessment included with this certification?	☐	

SITE NO. 932020

Box 3

Description of Institutional Controls

Parcel	Institutional Control
~~230~~ 232 Parcels	Building Use Restriction Ground Water Use Restriction Landuse Restriction Monitoring Plan O&M Plan

Description of Engineering Controls

Box 4

Parcel	Engineering Control
~~230~~ 232 Parcels	Cover System Fencing/Access Control Groundwater Containment Leachate Collection Pump & Treat

Attach documentation if IC/ECs cannot be certified or why IC/ECs are no longer applicable. (See instructions)

List of ~~230~~ 232 Parcels for Site No. 932020

Parcel: 161.14-3-10 ← Parcel 161.14-3-11
Parcel: 161.14-3-12
Parcel: 161.14-3-13
Parcel: 161.14-3-14
Parcel: 161.14-3-15
Parcel: 161.14-3-16
Parcel: 161.14-3-17
Parcel: 161.14-3-18
Parcel: 161.14-3-19
Parcel: 161.14-3-20
Parcel: 161.14-3-21
Parcel: 161.14-3-22
Parcel: 161.14-3-23
Parcel: 161.14-3-24
Parcel: 161.14-3-25
Parcel: 161.14-3-26
Parcel: 161.14-3-27
Parcel: 161.14-3-28
Parcel: 161.14-3-29
Parcel: 161.14-3-30
Parcel: 161.14-3-31
Parcel: 161.14-3-32
Parcel: 161.14-3-33
Parcel: 161.14-3-34

List of ~~230~~ 232 Parcels for Site No. 932020 (cont.)

Parcel: 161.14-3-35
Parcel: 161.14-3-36
Parcel: 161.14-3-37
Parcel: 161.14-3-38
Parcel: 161.14-3-39
Parcel: 161.14-3-4
Parcel: 161.14-3-40
Parcel: 161.14-3-41
Parcel: 161.14-3-42
Parcel: 161.14-3-43 ← Parcel: 161.14-3-5
Parcel: 161.14-3-6
Parcel: 161.14-3-7
Parcel: 161.14-3-8
Parcel: 161.14-3-9
Parcel: 161.15-1-10
Parcel: 161.15-1-11
Parcel: 161.15-1-12
Parcel: 161.15-1-13
Parcel: 161.15-1-14
Parcel: 161.15-1-15
Parcel: 161.15-1-16
Parcel: 161.15-1-17
Parcel: 161.15-1-18
Parcel: 161.15-1-19
Parcel: 161.15-1-20
Parcel: 161.15-1-21
Parcel: 161.15-1-22
Parcel: 161.15-1-23
Parcel: 161.15-1-24
Parcel: 161.15-1-25
Parcel: 161.15-1-26
Parcel: 161.15-1-27
Parcel: 161.15-1-28
Parcel: 161.15-1-29
Parcel: 161.15-1-30
Parcel: 161.15-1-31
Parcel: 161.15-1-32
Parcel: 161.15-1-33
Parcel: 161.15-1-34
Parcel: 161.15-1-35
Parcel: 161.15-1-36
Parcel: 161.15-1-37
Parcel: 161.15-1-38
Parcel: 161.15-1-39
Parcel: 161.15-1-40
Parcel: 161.15-1-41
Parcel: 161.15-1-42

List of ~~230~~ 232 Parcels for Site No. 932020 (cont.)

Parcel: 161.15-1-43
Parcel: 161.15-1-44
Parcel: 161.15-1-45
Parcel: 161.15-1-46
Parcel: 161.15-1-9
Parcel: 161.18-1-13
Parcel: 161.18-1-14
Parcel: 161.18-1-15
Parcel: 161.18-1-16
Parcel: 161.18-1-17 ← Parcel: 161.18-1-18
Parcel: 161.18-1-19
Parcel: 161.18-1-20
Parcel: 161.18-1-21
Parcel: 161.18-1-22
Parcel: 161.18-1-23
Parcel: 161.18-1-24
Parcel: 161.18-1-25
Parcel: 161.18-1-26
Parcel: 161.18-1-27
Parcel: 161.18-1-28
Parcel: 161.18-1-29
Parcel: 161.18-1-30
Parcel: 161.18-1-31
Parcel: 161.18-1-32
Parcel: 161.18-1-33
Parcel: 161.19-1-1
~~Parcel: 161.19-1-18~~ Not part of Site
Parcel: 161.19-1-37
Parcel: 161.19-1-38
Parcel: 161.19-1-39
Parcel: 161.19-1-40
Parcel: 161.19-1-41
Parcel: 161.19-1-42
Parcel: 161.19-1-43
Parcel: 161.19-1-44
Parcel: 161.19-1-45
Parcel: 161.19-1-46
Parcel: 161.19-1-47
Parcel: 161.19-1-48
Parcel: 161.19-1-49
Parcel: 161.19-1-50

List of ~~230~~ 232 Parcels for Site No. 932020 (cont.)

Parcel: 161.19-1-51
Parcel: 161.19-1-52
Parcel: 161.19-1-53
Parcel: 161.19-1-54
Parcel: 161.19-1-55
Parcel: 161.19-1-56
Parcel: 161.19-1-57
Parcel: 161.19-1-58
Parcel: 161.57-1-1
Parcel: 161.57-1-10
Parcel: 161.57-1-11
Parcel: 161.57-1-12
Parcel: 161.57-1-13
Parcel: 161.57-1-14
Parcel: 161.57-1-15
Parcel: 161.57-1-16
Parcel: 161.57-1-17
Parcel: 161.57-1-18
Parcel: 161.57-1-19
Parcel: 161.57-1-2
Parcel: 161.57-1-20
Parcel: 161.57-1-21
Parcel: 161.57-1-22
Parcel: 161.57-1-23
Parcel: 161.57-1-24
Parcel: 161.57-1-25
Parcel: 161.57-1-26
Parcel: 161.57-1-27
Parcel: 161.57-1-28
Parcel: 161.57-1-29
Parcel: 161.57-1-3
Parcel: 161.57-1-30
Parcel: 161.57-1-31
Parcel: 161.57-1-32
Parcel: 161.57-1-33
Parcel: 161.57-1-34
Parcel: 161.57-1-35
Parcel: 161.57-1-36
Parcel: 161.57-1-37
Parcel: 161.57-1-38
Parcel: 161.57-1-39

List of ~~230~~ 232 Parcels for Site No. 932020 (cont.)

Parcel: 161.57-1-4
Parcel: 161.57-1-40
Parcel: 161.57-1-41
Parcel: 161.57-1-42
Parcel: 161.57-1-43
Parcel: 161.57-1-44
Parcel: 161.57-1-45
Parcel: 161.57-1-46
Parcel: 161.57-1-47
Parcel: 161.57-1-48
Parcel: 161.57-1-49
Parcel: 161.57-1-5
Parcel: 161.57-1-50
Parcel: 161.57-1-51
Parcel: 161.57-1-52
Parcel: 161.57-1-53
Parcel: 161.57-1-6
Parcel: 161.57-1-7
Parcel: 161.57-1-8
Parcel: 161.57-1-9
Parcel: 161.65-1-1
Parcel: 161.65-1-10
Parcel: 161.65-1-11
Parcel: 161.65-1-12
Parcel: 161.65-1-13
Parcel: 161.65-1-14
Parcel: 161.65-1-15
Parcel: 161.65-1-16
Parcel: 161.65-1-17
Parcel: 161.65-1-18
Parcel: 161.65-1-2
Parcel: 161.65-1-3
Parcel: 161.65-1-4
Parcel: 161.65-1-5
Parcel: 161.65-1-6
Parcel: 161.65-1-7
Parcel: 161.65-1-8
Parcel: 161.65-1-9
Parcel: 161.73-1-1
Parcel: 161.73-1-10
Parcel: 161.73-1-11

List of ~~230~~ 232 Parcels for Site No. 932020 (cont.)

Parcel: 161.73-1-12
Parcel: 161.73-1-13
Parcel: 161.73-1-14
Parcel: 161.73-1-15
Parcel: 161.73-1-16
Parcel: 161.73-1-17
Parcel: 161.73-1-18
Parcel: 161.73-1-19
Parcel: 161.73-1-2
Parcel: 161.73-1-20
Parcel: 161.73-1-21
Parcel: 161.73-1-22
Parcel: 161.73-1-23
Parcel: 161.73-1-24
Parcel: 161.73-1-25
Parcel: 161.73-1-26
Parcel: 161.73-1-27
Parcel: 161.73-1-28
Parcel: 161.73-1-29
Parcel: 161.73-1-3
Parcel: 161.73-1-30
Parcel: 161.73-1-31
Parcel: 161.73-1-32
Parcel: 161.73-1-33
Parcel: 161.73-1-34
Parcel: 161.73-1-35
Parcel: 161.73-1-36
Parcel: 161.73-1-37
Parcel: 161.73-1-38
Parcel: 161.73-1-39
Parcel: 161.73-1-4
Parcel: 161.73-1-5
Parcel: 161.73-1-6
Parcel: 161.73-1-7
Parcel: 161.73-1-8
Parcel: 161.73-1-9

Control Description for Site No. 932020 (~~230~~ 232 Parcels)

-22 Acre Clay Landfill Cap in 1980. Expanded to 40 Acres with 80 mil. HDPE in 1984
-Perimeter Leachate Collection System
-Leachate conveyance by Process Logic Control
-Onsite leachate treatment plant by Process Logic Control
-Discharge Permit
-Perimeter fence
-Remote notification of alarm conditions to RP personnel
-Onsite Administration Building
-O&M Plan
-Annual Groundwater Quality Monitoring Plan
-Annual and Quarterly Site Management Reporting
-Consent Judgement, June 16, 1994

This site was originally a 16-acre landfill. It is located in Niagara Falls, Niagara County, between Colvin Blvd. to the north, 99th St. to the east, Frontier Ave. to the south and 97th St. to the west. In the late 1970's, chemically contaminated groundwater (leachate) breakouts occurred through the surface and laterally into basement homes. The significant health risks prompted Health Commissioner Robert Whalen and President Carter to sign Emergency Declaration orders. The orders called for site access limitations and the evacuation of pregnant and child bearing aged women to relocate. Corrective action measures were immediately put into effect. The measures consisted of the construction of a 22-acre clay cap, installation of a permanent leachate collection system and construction of a leachate treatment plant. The clay cap was designed to reduce the amount of vertical infiltration from precipitation and snowmelt into the landfill. The collection system was designed to intercept lateral migration of chemically contaminated groundwater and maintain inward groundwater gradients. The treatment plant was designed to remove the organic properties from the leachate and discharge the effluent to the sanitary sewer for further treatment at the Niagara Falls Wastewater Treatment Plant. These three remedial phases were completed in 1979.

To further reduce or eliminate the amount of vertical infiltration into the landfill and decrease hydraulic dynamics, the cap was doubled in size to 40 acres. The expansion consisted of several lifts of soil and clay including the installation of a .80 mil HDPE top cover. One foot of final soil was added on top of the HDPE and seeded. Today, the cover system continues to perform as designed and leachate continues to be intercepted by the collection system to maintain inward groundwater gradients for a hydraulic "sink". Field pumps in cylindric chambers automatically start at pre-set or "pump on" leachate levels. The levels are monitored and activated by a process logic control system. Leachate is then pumped to two underground holding tanks. One tank is located in the south end of the landfill that has a capacity of twenty-five thousand gallons and the other tank is located in the central-north area of the landfill behind the treatment plant that has a capacity of thirty thousand gallons. When the tanks are full or by operator demand, leachate is pumped to the treatment plant for organics removal by the processes of clarification, solids filtration and carbon adsorption.

To check on the plants performance and as a requirement of the Discharge Permit issued by the City of Niagara Falls, compliance samples are collected quarterly. Based on the analytical results and pressure gauges that monitor the carbon adsorbers and solids filters, activated carbon and/or bag filters are replaced. Effluent results and monthly flows are tabulated and submitted to the City of Niagara Falls and the Department.

Annually the cap is inspected for integrity. Checks of settling, bare areas or erosion are made. If noted, corrections are scheduled and implemented. The site is typically manned during the day. During off hours, personnel can be notified of upset conditions by a dialer system. Security is provided by a perimeter fence and locked gates. Groundwater quality monitoring of onsite and offsite wells are completed annually to monitor the effectiveness of the remedy. Reports of Site Management activities are done on an annual frequency and submitted to the Department. Area residents receive a summary letter. A Consent Judgement Order assures compliance to and for Site Management operation, maintenance and monitoring for the continued protection of health and the environment.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted

YES	NO
☐	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☐	☐

3. If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in the Decision Document);

   I certify by checking "YES" below that the O&M Plan Requirements (or equivalent as required in the Decision Document) are being met.

☐	☐

4. If this site has a Monitoring Plan (or equivalent as required in the remedy selection document);

   I certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the Decision Document) is being met.

YES	NO
☐	☐

IC CERTIFICATIONS
SITE NO. 932020

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 2 and/or 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Ralph Schupp (print name) at 4825 Hyde Park Blvd. N.F. NY 14305 (print business address)

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Ralph Schupp
Signature of Owner or Remedial Party Rendering Certification

2/26/2010
Date

IC/EC CERTIFICATIONS

Box 7

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I James Thornton (print name) at 285 Delaware Ave, Buffalo NY (print business address)

am certifying as a Qualified Environmental Professional for the Remedial Party

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.

STATE OF NEW YORK
JAMES C. THORNTON
No. 60432
LICENSED PROFESSIONAL ENGINEER

James C Thornton
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (if Required)

2/26/10
Date

Enclosure 2

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the six questions in the Verification of Site Details Section. Questions 5 and 6 only refer to sites in the Brownfield Cleanup Program. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional / Engineering Controls (Boxes 3, 4, and 5)

Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party is to petition the Department requesting approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control and/or certify the other SM Plan components that are applicable, continue to complete the remainder of this **Certification** form. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a statement of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

   If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) is to be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7)**:**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page. Where the only control is an Institutional Control on the use of the property the certification statement in Box 6 shall be completed and may be made by the property owner. Where the site has Institutional and Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional (see table below).

Table 1. Signature Requirements for Control Certification Page

Type of Control	Example of IC/EC	Required Signatures
EC which does not include a treatment system or engineered caps.	Fence, Clean Soil Cover, Individual House Water Treatment System, Vapor Mitigation System	A site or property owner or remedial party, and a QEP. (P.E. license not required)
EC that includes treatment system or an engineered cap.	Pump & Treat System providing hydraulic control of a plume, Part 360 Cap.	A site or property owner or remedial party, and a QEP with a P.E. license.

WHERE to mail the signed Certification Form by **Monday, March 1, 2010**:

New York State Department of Environmental Conservation

270 Michigan Ave
Buffalo, NY 14203-2999

Attn: Brian Sadowski, Project Manager

Please note that extra postage may be required.

APPENDIX B

BARRIER DRAIN INSPECTION FORM

Love Canal

Semi-annual Inspection
Barrier System/Pump Chamber Inspections
(O&M requirement 6.1.3.1)

Check the following as appropriate:

Visual Inspection of chamber piping.
Verification of level probe performance.
Inspection of pump chamber integrity.
Inspection of pump chamber security.

Wells	Satisfactory	Needs work
PC-3	✓	
PC-2	✓	
PC-1	✓	
PC-3A	✓	
PC-2A	✓	
PC-1A	✓	

Comments:

Signature _____ Date 5/10/2009

Love Canal

Semi-annual Inspection
Barrier System/Pump Chamber Inspections
(O&M requirement 6.1.3.1)

Check the following as appropriate:

Visual Inspection of chamber piping.
Verification of level probe performance.
Inspection of pump chamber integrity.
Inspection of pump chamber security.

Wells	Satisfactory	Needs work
PC-3	✓	
PC-2	✓	
PC-1	✓	
PC-3A	✓	
PC-2A	✓	
PC-1A	✓	

Comments:

Signature _____ Date 10/6/2009

APPENDIX C

NIAGARA FALLS WATER BOARD WASTEWATER DISCHARGE PERMIT

December 14, 2004

Mr. Brian Downey – Facility Manager
Occidental Chemical Corporation
Love Canal
805 – 97th Street
Niagara Falls, New York 14304

Dear Mr. Downey:

Enclosed please find your facilities modified copy of SIU Wastewater Discharge Permit SIU #44.

If you have any questions, please feel free to contact me at 716-286-49678.

Sincerely,

NIAGARA FALLS WATER BOARD
WASTEWATER FACILITIES

Albert C. Zaepfel
Industrial Monitoring Coordinator

Enc.

ACZ: mc

Cc: FILE: SIU - A44

F:\ADMIN\WINWORD\ZAEPFEL\SIU\PERMITS\LOVE CANAL

NIAGARA FALLS WATER BOARD

WASTEWATER FACILITIES

SIGNIFICANT INDUSTRIAL USER

WASTEWATER DISCHARGE PERMIT

PERMIT NO. 44 Occidental Chemical Corporation - Love Canal Leachate Treatment Facility

In accordance with all terms and conditions of the Niagara Falls Water Board Regulations Part 1960 and also with all applicable provisions of Federal and State Law or regulation:

Permission is Hereby Granted To: Occidental Chemical Corporation - Love Canal Leachate Treatment Facility

Located at: 805 - 97th Street, Niagara Falls, NY 14304

Classified by SIC No(s): 4952

For the contribution of wastewater into the Niagara Falls Water Board Publicly-Owned Treatment Works (POTW).

Effective this 7th day of, January 2005

To Expire this 7th day of, January 2010

Richard R. Roll
Director of Technical & Regulatory Services

Signed this 15TH day of December, 2004

DISCHARGE IDENTIFICATION

OUTFALL	DESCRIPTION	LOCATION	RECEIVING
#1	97th Street Discharge	97th Street	Carbon Treated Leachate from Love Canal and 102nd Street landfill

WASTEWATER DISCHARGE PERMIT REQUIREMENTS FOR:	ACTION REQUIRED	REQUIRED DATE OF SUBMISSION
A. Discharges to the Niagara Falls Water Board (NFWB) Sewer		
1. Identification of all discharges to the NFWB Sewer System on a current plant sewer map certified by a New York State licensed professional engineer.	None	Submitted 12/13/04
2. Identification of each contributing waste stream to each discharge to the NFWB Sewer System clearly marked on, or referenced to, a current plant sewer map certified by a New York State licensed professional engineer.	None	Submitted 12/13/04
3. Elimination of all uncontaminated discharges to the NFWB Sewer System. All uncontaminated flows should be clearly identified on a current sewer map certified by a New York State licensed professional engineer.	N/A	
4. Establishment of a control manhole that is continuously and immediately accessible for each discharge to the NFWB Sewer System.	None	Previously Established
B. Wastewater Discharge Management Practices		
1. Identification of a responsible person(s) (day to day and in emergencies).	None	**Performed by** NFWB

C. Slug Control Plan**

Pursuant to Section 40 CFR 403.12 (v) of the Federal Pretreatment Standards the Niagara Falls Water Board will evaluate the permittee, a minimum of once every two years for the need for a "Slug Control Plan." If a plan is required by the Niagara Falls Water Board, then the plan will contain, at a minimum, the following elements:

a) Description of discharge practices, including non-routine batch discharges;
b) Description of stored chemicals;
c) Procedures for immediately notifying the POTW of slug discharges, including any discharge that would violate a prohibition under 40 CFR 403.5 (b), with procedures for follow-up written notification within five days;
d) If necessary, procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment necessary for emergency response.

**This section applies to all pollutants limited by the Niagara Falls Water Board SPDES Permit and all prohibited wastewater discharges (See Section 1960.5 of the Niagara Falls Water Board Wastewater Regulations).

D. General Wastewater Discharge Permit Conditions

1. Flow monitoring should be performed concurrently with any Wastewater Discharge Permit sampling and should be reported at the same time as analytical results. If it is not feasible to perform flow monitoring, an estimate of flow (method of estimated flow preapproved by the Niagara Falls Water Board) should be submitted with the analytical results.

2. All sampling for billing and pretreatment compliance purposes will be coordinated through the Niagara Falls Water Board Industrial Monitoring Coordinator.

3. All analysis must be performed by a State certified laboratory using analytical methods consistent with 40 CFR 136 and quality control provisions as required by the Niagara Falls Water Board Laboratory Technical Director. The permittee will report the results as directed in Section G of this permit. Results should be reported using the Method Detection Limit (MDL). Reporting results less than MDL will be indicated in the report by a less than sign (<) followed by the numeric MDL concentration reported by the laboratory. In these cases the pollutant load will be calculated and reported as zero (0). The MDL will be defined as the level at which the analytical procedure referenced is capable of determining with a 99% probability that the substance is present. The value is determined in reagent water. The precision at this level is +/- 100%.

4. An estimate of relative production levels for wastewater contributing processes at the time of any pretreatment compliance sampling will be submitted upon request of the Director of Niagara Falls Water Board - Wastewater Facilities.

5. All samples will be handled in accordance with EPA approved methods. Chain of Custody records will be submitted with all sampling results.

6. All conditions, standards and numeric limitations of Niagara Falls Water Board Wastewater Regulations are hereby incorporated into this permit by reference. These conditions, standards and numeric limitations must be complied with. Failure to comply with any part of said Regulations constitutes a violation and is subject to enforcement actions(s) described in Section 1960.9 of said Regulations, and in the Niagara Falls Water Board Pretreatment Administrative Procedure Number Five (5) - "Enforcement Response Guide." In the event of a violation, including slug discharges or spills, the Niagara Falls Water Board must be notified immediately by phone and confirmed by letter within five (5) working days.

   Any person adjudicated of violating any provision in the Niagara Falls Water Board Wastewater Regulations shall be assessed a fine in the amount of up to $5,000. This amount is available for each violation, and each day of a violation is a separate incident for which penalties may be sought.

6. The person violating any of the provisions of the Niagara Falls Water Board Wastewater Regulations will be liable for any expense, loss, or damage occasioned by reason of such violation. The expense, loss or damage will be taken to be the extent determined by the Director.

   In addition, any person who knowingly makes any false statements, representation or certification in any application, record, report, plan or other document filed or required to be maintained pursuant to the Niagara Falls Water Board Wastewater Regulations, or Wastewater Discharge Permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under the Niagara Falls Water Board Wastewater Regulations will, upon conviction be punished by a fine up to $5,000. Furthermore, the Niagara Falls Water Board may recover reasonable attorney's fees, court costs, court reporting fees, and other expenses of litigation by appropriate suit at law against the person found to have violated applicable laws, orders, rules and permits required by the Niagara Falls Water Board Wastewater Regulations.

7. In accordance with Federal Regulation CFR 40, Part 403.12(g), any exceedance of a numeric limitation noted by the SIU must be re-sampled, analyzed and resubmitted to the Niagara Falls Water Board - Wastewater Facilities within 30 days.

   Specifically, if any limit that is *listed* in Section F of this permit is exceeded, then the permittee will undertake a short term monitoring program for that pollutant. Samples will be collected identical to those required for routine monitoring purposes and will be collected on each of at least *two (2)* operating days and analyzed. Results will be reported in both concentration and mass, and will be submitted within *30* days of becoming aware of the exceedence.

8. Sampling frequency for any permitted compounds may be increased beyond the requirements set forth in Section F and G of this permit. If the permittee monitors (sample and analysis) more frequent than required under this permit, **all** results of this monitoring must be reported.

9. As noted in Section 1960.5g of the Niagara Falls Water Board Wastewater Regulations, "Personnel as designated by the Director will be permitted at any time for reasonable cause to enter upon all properties served by the Niagara Falls Water Board for the purpose of, and to carry out, inspection of the premises, observation, measurement, sampling and testing, in accordance with provisions of the Regulations."

10. As noted in Section 1960.5c of the Niagara Falls Water Board Wastewater Regulations, significant changes in discharge characteristics or volume must be reported immediately to the Niagara Falls Water Board - Wastewater Facilities.

11. As noted in Section 1960.6b of the Niagara Falls Water Board Wastewater Regulations, samples required to be collected via a 24-hour composite sampler must be retained refrigerated for an additional 24 hour plus unrefrigerated an additional 48 hours (total 72 hours).

12. As noted in Section 1960.5d of the Niagara Falls Water Board Wastewater Regulations, all "SIU's will keep on file for a minimum of three years, all records, flow charts, laboratory calculations or any other pertinent data on their discharge to the Niagara Falls Water Board - Wastewater Facilities."

13. As noted in Section 1960.6g of the Niagara Falls Water Board Wastewater Regulations, "Permits are issued to a specific user for a specific monitoring station. A permit will not be reassigned or transferred without the approval of the Director which approval will not be unreasonably withheld. Any succeeding owner or user to which a permit has been transferred and approved will also comply with all the terms and conditions of the existing permit."

14. The Annual Average Limitation is equivalent to the specific SIU allocation, and will be defined as the permissible long term average discharge of a particular pollutant. These limitations are listed in Section F of this permit. The computation of the Annual Average will be as follows; for each compound listed in Section G of this permit, the Annual Average will be the average of the present monitoring quarter and three previous quarters = data.

15. The Daily Maximum Limitation will be defined as the maximum allowable discharge on anyone day. The Daily Maximum Limitation will allow for periodic short term discharge fluctuations. These specific limitations are listed in Section F of this permit.

16. Enforcement of the Annual Average Limitation will be based on the reported average of the last four quarters data vs. the Annual Average Limited listed in Section F of this permit. Enforcement of the Daily Maximum Limitation will be based on individual analysis results vs. the Daily Maximum Limit listed in Section F of this permit. These results may be obtained from self monitoring (Section G), City of Niagara Falls Verification, incident investigation or billing samples.

17. The Niagara Falls Water Board Administrative Procedure Number 6 "Procedure for Determination and Use of Local Limits" lists all pollutants noted in the Niagara Falls Water Board – Wastewater Facilities SPDES Permit. The limits defined in the procedure are values which are based on the quantity of substances discharged which can be easily related to the Treatment Plant's removal capacity.

    The pollutants listed in this procedure which are <u>not</u> specifically listed in Section F and G of this permit may be present in the permittee's wastewater discharge, but at levels which do not require specific permit limitations. Consequently, if any of the limits listed in this procedure, for pollutants <u>not</u> identified in Section F and G of this permit, are exceeded then the permittee will undertake a short-term, high intensity monitoring program for that pollutant. Samples identical to those required for routine monitoring purposes will be collected on each of at least three operating days and analyzed. Results will be expressed in terms of both concentration and mass, and will be submitted no later than the end of the third month following the month when the limit was first exceeded.

    If levels higher than the limit are confirmed, the permit may be reopened by the Niagara Falls Water Board for consideration of revised permit limits.

E. Specific Wastewater Discharge Permit Conditions

1. Billing Agreement:

a) Flow quantities will derived from the Wastewater Treatment Facility flow meter.

b) Charges for TSS, SOC and Substances of Concern shall be developed based on Quarterly Self Monitoring data.

2. Love Canal Leachate Treatment Facility (LCLTF)

The Niagara Falls Water Board agrees to accept wastewater processed from Occidental Chemical Corporation (OCC) LCLTF. These waters in addition to Love Canal wastewater shall include wastewater from the 102nd Street remedial site. This approval is subject to the following conditions:

a) The LCLTF shall be properly operated and maintained at all times.

b) To ensure proper operation OCC shall ensure sufficient feed, interstage (breakthrough), and effluent analysis to ensure timely carbon changes. Treatment levels of 10 ugl/ℓ shall be achieved and verified with quarterly composite sample analysis for the following compounds: trichloroethylene, tetrachloroethylene, monochlorotoluene, monochlorobenzenes, trichlorobenzenes, tetrachlorobenzenes, hexachlorocyclohexanes and hexachlorobenzene.

E. Specific Wastewater Discharge Permit Conditions

2. Love Canal Leachate Treatment Facility (LCLTF) Continued

c) The issuance of this approval if based on OCC's previous assertions that there is no reason to anticipate the presence of tetrachlorodibenzo-p-dioxins in the discharge from the treatment facility. The Niagara Falls Water Board hereby reserves the right to collect samples from the treatment facility effluent and analyze such wastewaters for their chemical constituents, including tetrachlorodibenzo-p-dioxins. If such analysis indicates the presence of tetrachlorodibenzo-p-dioxins, this approval may be withdrawn. If at anytime, the Niagara Falls Water Board determines on any basis that the discharge of these wastewater to the POTW is interfering with the operation of that facility, the Niagara Falls Water Board will direct OCC to discontinue the discharge.

d) These pretreated wastewaters shall be discharged to the POTW via Outfall MS # 1.

e) Periodically wet weather flow in the area around Love Canal results in surcharged sewers. The resultant surcharge requires overflow at combined sewer and storm sewer overflow points. Other points in the sewer shed require manual bypass pumping. Consequently, to minimize this overflow, the Niagara Falls Water Board will require the permittee to cease discharge from the LCLTF during these surcharge events.

A notification procedure has been established by the Niagara Falls Water Board to formalize the communication between the Niagara Falls Water Board and the permittee to halt and resume the LCLTF discharge. This procedure by reference is hereby incorporated as a condition of this permit.

F. Discharge Limitations & Monitoring Requirements

During the Period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall(s) will be limited and monitored by the permittee as specified below.

OUTFALL NUMBER/ EFFLUENT PARAMETER	DISCHARGE LIMITATIONS		UNITS	MINIMUM MONITORING REQUIREMENTS	
	ANNUAL AVERAGE	DAILY MAXIMUM		MEASUREMENT FREQUENCY	SAMPLE TYPE
#1 Flow	0.3	0.3	MGD	Continuous	4
#1 Total Suspended Suspended	6.25	16.0	lbs/d	1/Qtr.	1
#1 Soluble Organic Carbon	50	75	lbs/d	1/Qtr.	1
#1 Volatile - Priority Pollutants (See Attached list Section G)	MONITOR	ONLY	lbs/d	1/Qtr.	1
#1 Acid Extractable - Priority Pollutants (See attached list Section G)	MONITOR	ONLY	lbs/d	1/Qtr.	1
#1 Base/Neutral - Priority Pollutants (See attached list Section G)	MONITOR	ONLY	lbs/d	1/Qtr.	1
# 1 Pesticides - Hexachlorocyclohexanes	MONITOR	ONLY	lbs/d	1/Qtr.	1
#1 Total Phenols	MONITOR	ONLY	lbs/d	1/Qtr.	1

F. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS CONTINUED

SAMPLE TYPE FOOTNOTES

(1) Each sample will consist of four (4) grabs collected spaced throughout the **batch** discharge, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. The four (4) grabs will be **composited in the laboratory** and analyzed as one sample.

(2) Each sample will consist of four (4) grabs collected spaced over the 24-hour period, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. The four (4) grabs will be **composited in the laboratory** and analyzed as one sample.

(3) Each sample will consist of a 24-hour, **flow proportioned** composite sample collected from the monitoring point.

(4) Flow will be monitored continuously with the use of a water meter or another acceptable flow metering device.

(5) Each sample will consist of a 24-hour, **time proportioned** composite sample collected from the monitoring point.

(6) Reserved

(7) Same as (3), however, five (5) samples will be collected per quarter from the monitoring point and analyzed by and at the Niagara Falls Water Board's expense.

(8) Four (4) grab samples will be collected spaced over the 24-hour period, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. Each grab will be **analyzed and reported separately**.

(9) A grab sample is defined as an aliquot collected over a period of not more than 15 minutes.

G. Discharge Monitoring Reporting Requirements

During the period beginning the effective date of this permit and lasting until its expiration date, discharge monitoring results will be summarized and reported by the permittee; Monthly - 14 days after monitoring period, Quarterly - by the last day of the monitoring period = February 28, May 31, August 31, November 30. Semiannual reports will be submitted on the last day of the monitoring period = February 28, August 31. The annual average for each parameter listed in Section F, will be computed and reported quarterly. The individual sample analysis for present quarter will also be reported quarterly unless directed otherwise in this permit.

OUTFALL NO	PARAMETER	REPORTING FREQUENCY
#1	Flow	Quarterly
#1	Total Suspended Solids	Quarterly
#1	Volatile - Priority Pollutants	Quarterly
#1	Acid Extractables - Priority Pollutants	Quarterly
#1	Base/Neutral - Priority Pollutants	Quarterly
#1	Total Phenols	Quarterly

Discharge Monitoring Compounds

Volatile	Base/Neutrals Extractables
Benzene	Dimethyl Phthalate
Carbon Tetrachloride	Butyl Benz Phthalate
Chlorodibromethane	Di-N-Butyl Phthalate
Monochlorobenzene	Di-N-Octyl Phthalate
Dichlorobromethane	Diethyl Phthalate
Chloroform	Nitrosodiphenylamine
Dichloroethylenes	Dichlorobenzenes
Bromoform	Dichlorotoluene
Dichloropropylenes	Acenaphthlene
Ethylbenzene	Fluoranthene
Tetrachloroethanes	Chrysene
Tetrachloroethylene	Napthalene
Toluene	Benzo (a) Anthracene
Trichloroethanes	Pyrene
Trichloroethylene	Trichlorobenzene
Methylene Chloride	Trichlorotoluene
Vinyl Chloride	Hexachlorobutadiene
Monochlorotoluenes	Tetrachlorobenzene
Monochlorobenzotrifluoride	Hexachlorocyclopentadiene
	Hexachlorobenzene
	Dichlorobenzotrifluoride

Discharge Monitoring Compounds

Acids	Pesticides
Monochlorophenol	Alpha, beta, delta, gama – hexachlorocyclohexane
Dichlorophenol	
Monochlorocresol	
Trichlorophenol	
Pentachlorophenol	

Conventionals	
Total Phenols	
Total Suspended Solids	
Soluble Organic Carbon	

H. Comments/Revisions

F:\ADMIN\WINWORD\ZAEPFEL\SIU\PERMITS\LOVCAN44

APPENDIX D

ANALYTICAL RESULTS AND QA/QC REVIEW
LONG-TERM MONITORING PROGRAM
LOVE CANAL
JUNE/JULY 2009

APPENDIX D

ANALYTICAL RESULTS AND QA/QC REVIEW
LONG-TERM MONITORING PROGRAM
LOVE CANAL
JUNE/JULY 2009

CONESTOGA-ROVERS
& ASSOCIATES

E-Mail Date: December 10, 2009
E-Mail To: Clint Babcock [clint_babcock@oxy.com]
c.c.: Dennis Hoyt; Ralph Schupp; Jane Polovich; Darrell Crockett; Kathy Willy
E-Mail and Hard Copy if Requested

ANALYTICAL RESULTS AND QA/QC REVIEW
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

PREPARED BY:
CONESTOGA-ROVERS & ASSOCIATES
2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: 716-297-6150 Fax: 716-297-2265
Contact: Kathleen Willy [bjw]

Date: December 9, 2009
Revised: December 10, 2009
www.CRAworld.com

TABLE OF CONTENTS

LIST OF TABLES

LIST OF ATTACHMENTS

1.0 INTRODUCTION

Forty-seven (47) groundwater samples (including three field duplicates, two rinse blanks and five (5) trip blanks) were collected in support of the Long-Term Monitoring Program (LTMP) Love Canal Site in Niagara Falls, New York (Site), in June/July 2009. The samples were submitted to Mitkem Laboratories (Mitkem), located in Warwick, RI, and analyzed for site-specific volatiles, semi-volatiles, and pesticides/polychlorinated biphenyls (PCBs). A sample collection and analysis summary is presented in Table 1.

The analytical results are presented in Table 2. Tentatively Identified Compounds (TICs) were reviewed and a summary is presented in Attachment A. Copies of the Chains of Custody are included in Attachment B. The quality assurance/quality control (QA/QC) criteria by which these data have been assessed are outlined in Methods 95-1, 95-2, and 95-3, referenced from the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) (10/95 Rev.) and the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999.

All raw data including calibration, spike, and duplicate and blank results were assessed.

2.0 QA/QC REVIEW

2.1 HOLDING TIMES

Based upon criteria outlined in the NYSDEC ASP, the following holding time requirements were used:

Volatile Organic Compounds (VOCs)	10 days from Verified Time of Sample Receipt (VTSR) to analysis (preserved pH<2; HCl)
Semi-Volatile Organic Compounds (SVOCs)	5 days from VTSR to extraction; 40 days from extraction to analysis
Pesticides/PCBs	5 days from VTSR to extraction; 40 days from extraction to analysis

All holding time criteria were met for all sample preparation and analysis. All samples were properly preserved and received at the laboratory at 4°C (±2°C).

2.2 INSTRUMENT CALIBRATION

Gas Chromatograph/Mass Spectrometer (GC/MS) - VOCs and SVOCs

The GC/MS instrumentation was properly tuned prior to sample analysis. Initial calibration data showed adequate instrument sensitivity and calibration curves showed acceptable linearity for all compounds of interest with the exception of benzoic acid and pentachlorophenol. All associated sample results were qualified as estimated (see Table 3).

All continuing calibration standards showed adequate instrument sensitivity. Various VOC and SVOC continuing calibration standard results indicated variability in instrument response. All associated sample results were qualified as estimated (see Table 4).

Gas Chromatograph (GC) - Pesticides/PCBs

Initial and continuing calibration data showed adequate instrument sensitivity, linearity, and resolution. All retention times fell within the established retention time windows.

2.3 INTERNAL STANDARD RECOVERIES - VOCs AND SVOCs

The proper internal standard compounds were added to all samples, blanks, and blank spike samples prior to VOC and SVOC analyses. All internal standard recoveries were acceptable and properly used to calculate all positive sample results.

2.4 SURROGATE COMPOUND ANALYSES

Surrogates were added to all samples, blanks, and QC samples prior to extraction and/or analysis.

All surrogate recoveries met the method acceptance criteria with the exception of one low pesticide surrogate recovery. The associated sample results were qualified as estimated (see Table 5).

2.5 METHOD BLANK ANALYSES

Method blanks were analyzed and/or extracted at the proper frequency for all parameters. All blank results were non-detect for the analytes of interest.

2.6 BLANK SPIKE/BLANK SPIKE DUPLICATES

Blank spikes/blank spike duplicates were prepared and/or analyzed using representative compounds for all parameters.

All spike recoveries showed acceptable analytical accuracy and precision.

2.7 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

MS/MSDs were prepared and/or analyzed with each batch of samples.

All spike recoveries showed acceptable analytical accuracy and precision with the exception of an extremely low recovery (<10%) of heptachlor in the MS/MSD of sample LC-6209-609. The sample result has been qualified as estimated (see Table 6).

2.8 FIELD QA/QC

Field Duplicate Analyses

Three samples were collected in duplicate and submitted to the laboratory for analysis as summarized in Table 1. All field duplicate results showed acceptable comparability with the original sample results indicating acceptable analytical and field precision.

Trip Blanks

Trip blanks were collected and analyzed for Site-specific VOCs. All trip blank results were non-detect for the analytes of interest.

Field Blanks

Two rinse blanks were collected and analyzed with the samples as summarized in Table 1. All results were non-detect for the analytes of interest.

2.9 GENERAL COMMENTS

Pesticide analyses were performed using dual column analyses. In general, the pesticide results showed good correlation between the two columns. Variability was observed between some of the results (see Table 7). The associated data were qualified as estimated to reflect the implied variability.

2.10 TENTATIVELY IDENTIFIED COMPOUNDS (TICs)

TICs were evaluated for all samples submitted for volatile and semi-volatile analyses. A summary of the TICs reported and the estimated concentrations is presented in Attachment A. TICs which were present in the blanks or which were identified as aldol condensation products and/or siloxanes have been eliminated.

3.0 CONCLUSION

Based on this QA/QC review, these data were judged acceptable with the qualifications and exceptions noted.

TABLES

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

				Analysis/Parameters			
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*VOCs*	*SVOCs*	*Pesticides/PCBs*	*Comments*
LC-3257-609	3257	06/25/09	9:15	X	X	X	
LC-5221-609	5221	07/08/09	9:30	X	X	X	
LC-6209-609	6209	07/08/09	10:20	X	X	X	MS/MSD
LC-7120-609	7120	06/24/09	14:30	X	X	X	
LC-7130-609	7130	06/24/09	13:30	X	X	X	
LC-7132-609	7132	06/24/09	12:45	X			MS/MSD
LC-7155-609	7155	06/24/09	12:00	X			
LC-7161-609	7161	06/25/09	9:45	X	X	X	
LC-7205-609	7205	07/08/09	11:15	X	X	X	
LC-8106-609	8106	06/25/09	10:10	X	X	X	
LC-8110-609	8110	07/01/09	10:30	X	X	X	
LC-8120-609	8120	07/07/09	10:45	X	X	X	
LC-8130-609	8130	07/01/09	12:30	X	X	X	MS/MSD
LC-8140-609	8140	07/01/09	13:30	X	X	X	
LC-8205-609	8205	06/25/09	11:40	X	X	X	Field duplicate of sample LC-10135-609
LC-8210-609	8210	07/15/09	9:45	X	X	X	
LC-8215-609	8215	07/10/09	14:00	X	X	X	Field duplicate of sample LC-10210B-609
LC-9130-609	9110	07/06/09	12:10	X	X	X	
LC-9115-609	9115	07/06/09	12:30	X	X	X	
LC-9120-609	9120	07/06/09	13:15	X	X	X	
LC-9125-609	9125	07/06/09	13:45	X	X	X	
LC-9130-609	9130	07/07/09	12:30	X	X	X	

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

				Analysis/Parameters			
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*VOCs*	*SVOCs*	*Pesticides/PCBs*	*Comments*
LC-9140-609	9140	07/07/09	13:30	X	X	X	
LC-9205-609	9205	07/15/09	8:45	X	X	X	
LC-9210-609	9210	07/13/09	10:45	X	X	X	
LC-10135-609	10135	06/25/09	11:30	X	X	X	
LC-10147-609	10147	07/14/09	11:45	X	X	X	
LC-10150-609	10150	07/07/09	14:00	X	X	X	
LC-10205-609	10205	07/13/09	11:20	X	X	X	
LC-10215-609	10215	07/14/09	9:50	X	X	X	MS/MSD
LC-10270-609	10270	07/08/09	12:00	X	X	X	
LC-10272-609	10272	07/08/09	12:30	X	X	X	
LC-10278-609	10278	07/08/09	13:15	X	X	X	
LC-10210A-609	10210A	07/15/09	11:00	X	X	X	
LC-10210B-609	10210B	07/10/09	14:00	X	X	X	
LC-10210C-609	10210C	07/13/09	12:10	X	X	X	
LC-10225A-609	10225A	07/15/09	11:30	X	X	X	
LC-8225-609	10225B	07/15/09	13:00	X	X	X	Field duplicate of sample LC-10225B-609
LC-10225B-609	10225B	07/15/09	12:15	X	X	X	
LC-10225C-609	10225C	07/13/09	13:40	X	X	X	
LC-RINSE1-609	RINSE BLANK	06/25/09	12:00	X	X	X	Rinse Blank
LC-RINSE2-609	RINSE BLANK	07/08/09	14:00	X	X	X	Rinse Blank
LC-Trip-62409	TRIPBLANK	06/24/09	-	X			Trip Blank
LC-Trip-71309	TRIPBLANK	07/13/09	-	X			Trip Blank

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

				Analysis/Parameters			
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*VOCs*	*SVOCs*	*Pesticides/PCBs*	*Comments*
LC-Trip-71009	TRIPBLANK	07/10/09	-	X			Trip Blank
LC-Trip-7109	TRIPBLANK	07/01/09	-	X			Trip Blank
LC-Trip-7809	TRIPBLANK	07/08/0229	-	X			Trip Blank

Notes:

MS Matrix Spike.
MSD Matrix Spike Duplicate.
PCBs Polychlorinated Biphenyls.
SVOCs Semi-Volatile Organic Compounds.
VOCs Volatile Organic Compounds.

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*3257*	*5221*	*6209*	*7120*	*7130*	*7132*	*7155*	*7161*	*7205*
	Sample ID:	*LC-3257-609*	*LC-5221-609*	*LC-6209-609*	*LC-7120-609*	*LC-7130-609*	*LC-7132-609*	*LC-7155-609*	*LC-7161-609*	*LC-7205-609*
	Sample Date:	*6/25/2009*	*7/8/2009*	*7/8/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/25/2009*	*7/8/2009*
Parameters	*Units*									
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U	2.2 J	3.1 J	4.1 J	7.7 J	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	3257	5221	6209	7120	7130	7132	7155	7161	7205
	Sample ID:	LC-3257-609	LC-5221-609	LC-6209-609	LC-7120-609	LC-7130-609	LC-7132-609	LC-7155-609	LC-7161-609	LC-7205-609
	Sample Date:	6/25/2009	7/8/2009	7/8/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/25/2009	7/8/2009
Parameters	*Units*									
Semi-volatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
2,4,5-Trichlorophenol	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	25 UJ	25 U	25 U	25 UJ	25 UJ	25 UJ	25 UJ	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
3-Nitroaniline	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Bromophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	µg/L	25 U	25 UJ	25 UJ	25 U	25 U	25 U	25 U	25 U	25 UJ
4-Nitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*3257*	*5221*	*6209*	*7120*	*7130*	*7132*	*7155*	*7161*	*7205*
	Sample ID:	*LC-3257-609*	*LC-5221-609*	*LC-6209-609*	*LC-7120-609*	*LC-7130-609*	*LC-7132-609*	*LC-7155-609*	*LC-7161-609*	*LC-7205-609*
	Sample Date:	*6/25/2009*	*7/8/2009*	*7/8/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/25/2009*	*7/8/2009*
Parameters	*Units*									
Semi-volatile Organic Compounds (Cont'd.)										
Benzo(g,h,i)perylene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	µg/L	4.8 J	25 U	25 U	25 UJ	25 UJ	5.5 J	25 UJ	25 U	25 U
Benzyl Alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	10 U	10 U	10 U	10 U	1.0 J	3.0 J	10 U	10 U	1.2 J
Butyl benzylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ	25 U
Phenanthrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pesticides										
4,4'-DDD	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U
4,4'-DDE	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*3257*	*5221*	*6209*	*7120*	*7130*	*7132*	*7155*	*7161*	*7205*
	Sample ID:	*LC-3257-609*	*LC-5221-609*	*LC-6209-609*	*LC-7120-609*	*LC-7130-609*	*LC-7132-609*	*LC-7155-609*	*LC-7161-609*	*LC-7205-609*
	Sample Date:	*6/25/2009*	*7/8/2009*	*7/8/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/24/2009*	*6/25/2009*	*7/8/2009*
Parameters	*Units*									
Pesticides (Cont'd.)										
4,4'-DDT	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
alpha-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
Aroclor-1016 (PCB-1016)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Aroclor-1221 (PCB-1221)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Aroclor-1232 (PCB-1232)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Aroclor-1242 (PCB-1242)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Aroclor-1248 (PCB-1248)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Aroclor-1254 (PCB-1254)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Aroclor-1260 (PCB-1260)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
delta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
Dieldrin	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
Endosulfan II	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U
Endosulfan sulfate	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U
Endrin	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U
Endrin ketone	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U
gamma-BHC (Lindane)	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
Heptachlor	µg/L	0.050 U	0.050 U	R	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.070	0.050 UJ	0.050 U
Methoxychlor	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U
Toxaphene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*8106*	*8110*	*8120*	*8130*	*8140*	*8210*	*8215*	*8215*	*9110*
	Sample ID:	*LC-8106-609*	*LC-8110-709*	*LC-8120-709*	*LC-8130-709*	*LC-8140-709*	*LC-8210-609*	*LC-10210B-709*	*LC-8215-709*	*LC-9110-709*
	Sample Date:	*6/25/2009*	*7/1/2009*	*7/7/2009*	*7/1/2009*	*7/1/2009*	*7/15/2009*	*7/9/2009*	*7/9/2009 (Duplicate)*	*7/6/2009*
Parameters	*Units*									
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
cis-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

Parameters	*Units*	*Sample Location:* 8106 *Sample ID:* LC-8106-609 *Sample Date:* 6/25/2009	*Sample Location:* 8110 *Sample ID:* LC-8110-709 *Sample Date:* 7/1/2009	*Sample Location:* 8120 *Sample ID:* LC-8120-709 *Sample Date:* 7/7/2009	*Sample Location:* 8130 *Sample ID:* LC-8130-709 *Sample Date:* 7/1/2009	*Sample Location:* 8140 *Sample ID:* LC-8140-709 *Sample Date:* 7/1/2009	*Sample Location:* 8210 *Sample ID:* LC-8210-609 *Sample Date:* 7/15/2009	*Sample Location:* 8215 *Sample ID:* LC-10210B-709 *Sample Date:* 7/9/2009	*Sample Location:* 8215 *Sample ID:* LC-8215-709 *Sample Date:* 7/9/2009 (Duplicate)	*Sample Location:* 9110 *Sample ID:* LC-9110-709 *Sample Date:* 7/6/2009
Semi-volatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	25 UJ	25 UJ	25 UJ	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	µg/L	25 U	25 U	25 UJ	25 U	25 UJ	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	µg/L	25 U	25 U	25 UJ	25 U	25 U	25 UJ	25 U	25 U	25 U
4-Bromophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ	25 UJ	25 U
4-Nitrophenol	µg/L	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

Parameters	Units	Sample Location: 8106 Sample ID: LC-8106-609 Sample Date: 6/25/2009	8110 LC-8110-709 7/1/2009	8120 LC-8120-709 7/7/2009	8130 LC-8130-709 7/1/2009	8140 LC-8140-709 7/1/2009	8210 LC-8210-609 7/15/2009	8215 LC-10210B-709 7/9/2009	8215 LC-8215-709 7/9/2009 (Duplicate)	9110 LC-9110-709 7/6/2009
Semi-volatile Organic Compounds (Cont'd.)										
Benzo(g,h,i)perylene	µg/L	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	µg/L	25 UJ	25 UJ	25 UJ	25 U	25 UJ	1.0 J	25 U	25 U	25 UJ
Benzyl Alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	10 U	10 U	1.1 J	10 U	1.9 J	10 U	10 U	10 U	10 U
Butyl benzylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 U	10 U	10 U	2.7 J	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	25 U	25 U	25 UJ	25 UJ	25 UJ	25 UJ	25 U	25 U	25 U
Phenanthrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pesticides										
4,4'-DDD	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

Parameters	Units	*Sample Location:* 8106 *Sample ID:* LC-8106-609 *Sample Date:* 6/25/2009	*8110* *LC-8110-709* *7/1/2009*	*8120* *LC-8120-709* *7/7/2009*	*8130* *LC-8130-709* *7/1/2009*	*8140* *LC-8140-709* *7/1/2009*	*8210* *LC-8210-609* *7/15/2009*	*8215* *LC-10210B-709* *7/9/2009*	*8215* *LC-8215-709* *7/9/2009 (Duplicate)*	*9110* *LC-9110-709* *7/6/2009*
Pesticides (Cont'd.)										
4,4'-DDT	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.084	0.050 U	0.064	0.050	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1016 (PCB-1016)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221 (PCB-1221)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232 (PCB-1232)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242 (PCB-1242)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248 (PCB-1248)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254 (PCB-1254)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260 (PCB-1260)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.044 J	0.032 J	0.028 J	0.050 U
Dieldrin	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
gamma-BHC (Lindane)	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.038 J	0.033 J	0.050 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*9115*	*9120*	*9130*	*9130*	*9140*	*9205*	*9210*	*10105*	*10135*
	Sample ID:	*LC-9115-709*	*LC-9120-709*	*LC-9125-709*	*LC-9130-709*	*LC-9140-709*	*LC-9205-609*	*LC-9210-609*	*LC-10105-709*	*LC-10135-609*
	Sample Date:	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/7/2009*	*7/7/2009*	*7/15/2009*	*7/13/2009*	*7/7/2009*	*6/25/2009*
Parameters	*Units*									
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	24
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8.7 J
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.8 J
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	42
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	7600
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2900 J
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	96
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U
cis-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	76
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	25
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	14
Toluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	24000
trans-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	30
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	89
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	27
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	44

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*9115*	*9120*	*9130*	*9130*	*9140*	*9205*	*9210*	*10105*	*10135*
	Sample ID:	*LC-9115-709*	*LC-9120-709*	*LC-9125-709*	*LC-9130-709*	*LC-9140-709*	*LC-9205-609*	*LC-9210-609*	*LC-10105-709*	*LC-10135-609*
	Sample Date:	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/7/2009*	*7/7/2009*	*7/15/2009*	*7/13/2009*	*7/7/2009*	*6/25/2009*
Parameters	*Units*									
Semi-volatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	110
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	52
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4.1 J
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 J
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
2,4,5-Trichlorophenol	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	38 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	23
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1100
2,4-Dimethylphenol	µg/L	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	15 U
2,4-Dinitrophenol	µg/L	25 U	25 U	25 U	25 UJ	25 UJ	25 U	25 U	25 UJ	38 UJ
2,4-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
2,6-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
2-Chloronaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
2-Chlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	26
2-Methylnaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
2-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 J
2-Nitroaniline	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	38 U
2-Nitrophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
3,3'-Dichlorobenzidine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
3-Nitroaniline	µg/L	25 U	25 U	25 U	25 UJ	25 UJ	25 U	25 U	25 UJ	38 U
4,6-Dinitro-2-methylphenol	µg/L	25 U	25 U	25 U	25 UJ	25 UJ	25 UJ	25 U	25 UJ	38 U
4-Bromophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	97
4-Chloroaniline	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
4-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	140 J
4-Nitroaniline	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ	25 U	38 U
4-Nitrophenol	µg/L	25 U	25 U	25 U	25 UJ	25 UJ	25 U	25 U	25 UJ	38 U
Acenaphthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Acenaphthylene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Benzo(a)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Benzo(a)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Benzo(b)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*9115*	*9120*	*9130*	*9130*	*9140*	*9205*	*9210*	*10105*	*10135*
	Sample ID:	*LC-9115-709*	*LC-9120-709*	*LC-9125-709*	*LC-9130-709*	*LC-9140-709*	*LC-9205-609*	*LC-9210-609*	*LC-10105-709*	*LC-10135-609*
	Sample Date:	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/7/2009*	*7/7/2009*	*7/15/2009*	*7/13/2009*	*7/7/2009*	*6/25/2009*
Parameters	*Units*									
Semi-volatile Organic Compounds (Cont'd.)										
Benzo(g,h,i)perylene	µg/L	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	15 U
Benzo(k)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Benzoic acid	µg/L	25 UJ	25 UJ	1.3 J	1.6 J	25 UJ	25 UJ	25 U	25 UJ	54000 J
Benzyl Alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1200
bis(2-Chloroethoxy)methane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
bis(2-Chloroethyl)ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	28
bis(2-Ethylhexyl)phthalate	µg/L	1.5 J	10 U	10 U	5.2 J	10 U	10 U	10 U	1.2 J	4.4 J
Butyl benzylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Chrysene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Dibenz(a,h)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Dibenzofuran	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Diethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Dimethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Di-n-butylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Di-n-octyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Fluorene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Hexachlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Hexachlorobutadiene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Hexachlorocyclopentadiene	µg/L	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	15 U
Hexachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	15 U
Isophorone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Naphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Nitrobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
N-Nitrosodi-n-propylamine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Pentachlorophenol	µg/L	25 U	25 U	25 U	25 UJ	25 UJ	25 UJ	25 U	25 UJ	38 U
Phenanthrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Phenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	140 J
Pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15 U
Pesticides										
4,4'-DDD	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.60 U
4,4'-DDE	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.60 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*9115*	*9120*	*9130*	*9130*	*9140*	*9205*	*9210*	*10105*	*10135*
	Sample ID:	*LC-9115-709*	*LC-9120-709*	*LC-9125-709*	*LC-9130-709*	*LC-9140-709*	*LC-9205-609*	*LC-9210-609*	*LC-10105-709*	*LC-10135-609*
	Sample Date:	*7/6/2009*	*7/6/2009*	*7/6/2009*	*7/7/2009*	*7/7/2009*	*7/15/2009*	*7/13/2009*	*7/7/2009*	*6/25/2009*
Parameters	*Units*									
Pesticides (Cont'd.)										
4,4'-DDT	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.60 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.55 J
alpha-BHC	µg/L	0.050 U	0.090	0.050 U	0.050 U	0.050 U	0.026 J	0.047 J	0.050 U	27 J
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.30 U
Aroclor-1016 (PCB-1016)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0 U
Aroclor-1221 (PCB-1221)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0 U
Aroclor-1232 (PCB-1232)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0 U
Aroclor-1242 (PCB-1242)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0 U
Aroclor-1248 (PCB-1248)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0 U
Aroclor-1254 (PCB-1254)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0 U
Aroclor-1260 (PCB-1260)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 J
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	9.1 J
delta-BHC	µg/L	0.050 U	0.13	0.050 U	0.050 U	0.050 U	0.055	0.075	0.050 U	11 J
Dieldrin	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.60 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.30 U
Endosulfan II	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.6 J
Endosulfan sulfate	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.5 J
Endrin	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.3 J
Endrin ketone	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.60 U
gamma-BHC (Lindane)	µg/L	0.050 U	0.15	0.050 U	0.050 U	0.050 U	0.038 J	0.062	0.050 U	6.2 J
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.59 U
Heptachlor	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.30 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	1.6 J
Methoxychlor	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	3.0 U
Toxaphene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	30 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*10135*	*10147*	*10174A*	*10205*	*10210A*	*10210C*	*10215*	*10225A*
	Sample ID:	*LC-8205-609*	*LC-10147-609*	*LC-10174A-609*	*LC-10205-609*	*LC-10210A-609*	*LC-10210C-609*	*LC-10215-609*	*LC-10225A-609*
	Sample Date:	*6/25/2009 (Duplicate)*	*7/14/2009*	*7/8/2009*	*7/13/2009*	*7/15/2009*	*7/13/2009*	*7/14/2009*	*7/15/2009*
Parameters	*Units*								
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	25	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	9.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	6.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	37	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzene	µg/L	7500	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chlorobenzene	µg/L	3000 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	97	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
cis-1,2-Dichloroethene	µg/L	79	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	24	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	14	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	24000	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	30	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	91	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	17	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	µg/L	53	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

Parameters	*Units*	*Sample Location:* 10135 *Sample ID:* LC-8205-609 *Sample Date:* 6/25/2009 (Duplicate)	*10147* *LC-10147-609* *7/14/2009*	*10174A* *LC-10174A-609* *7/8/2009*	*10205* *LC-10205-609* *7/13/2009*	*10210A* *LC-10210A-609* *7/15/2009*	*10210C* *LC-10210C-609* *7/13/2009*	*10215* *LC-10215-609* *7/14/2009*	*10225A* *LC-10225A-609* *7/15/2009*
Semi-volatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	110	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	68	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	5.5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	150 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	µg/L	38 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	µg/L	28	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	1200	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	38 UJ	25 U	25 U	25 U	10 U	25 U	25 U	25 U
2,4-Dinitrotoluene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	µg/L	31	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	µg/L	66 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	µg/L	38 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	µg/L	38 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	µg/L	38 U	25 U	25 U	25 U	25 UJ	25 U	25 U	25 UJ
4-Bromophenyl phenyl ether	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	95	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	µg/L	170 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	µg/L	38 U	25 UJ	25 UJ	25 UJ	25 U	25 UJ	25 UJ	25 U
4-Nitrophenol	µg/L	38 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	10135	10147	10174A	10205	10210A	10210C	10215	10225A
	Sample ID:	LC-8205-609	LC-10147-609	LC-10174A-609	LC-10205-609	LC-10210A-609	LC-10210C-609	LC-10215-609	LC-10225A-609
	Sample Date:	6/25/2009 (Duplicate)	7/14/2009	7/8/2009	7/13/2009	7/15/2009	7/13/2009	7/14/2009	7/15/2009
Parameters	*Units*								
Semi-volatile Organic Compounds (Cont'd.)									
Benzo(g,h,i)perylene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	µg/L	39000 J	25 U	25 U	25 U	5.8 J	25 U	25 U	14 J
Benzyl Alcohol	µg/L	1300	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	µg/L	29	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	4.2 J	3.2 J	10 U	10 U	2.5 J	10 U	10 U	10 U
Butyl benzylphthalate	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	15 U	10 U	10 U	54	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	1.1 J
Nitrobenzene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	38 U	25 U	25 U	25 U	25 UJ	25 U	25 U	25 UJ
Phenanthrene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	µg/L	160 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	15 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pesticides									
4,4'-DDD	µg/L	0.60 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	µg/L	0.60 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

Parameters	Units	Sample Location: 10135 Sample ID: LC-8205-609 Sample Date: 6/25/2009 (Duplicate)	10147 LC-10147-609 7/14/2009	10174A LC-10174A-609 7/8/2009	10205 LC-10205-609 7/13/2009	10210A LC-10210A-609 7/15/2009	10210C LC-10210C-609 7/13/2009	10215 LC-10215-609 7/14/2009	10225A LC-10225A-609 7/15/2009
Pesticides (Cont'd.)									
4,4'-DDT	µg/L	0.60 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin	µg/L	0.55 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	32 J	0.050 U	0.050 U	0.29	0.050 U	0.050 U	0.062	0.050 U
alpha-Chlordane	µg/L	0.30 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1016 (PCB-1016)	µg/L	6.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221 (PCB-1221)	µg/L	6.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232 (PCB-1232)	µg/L	6.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242 (PCB-1242)	µg/L	6.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248 (PCB-1248)	µg/L	6.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254 (PCB-1254)	µg/L	6.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260 (PCB-1260)	µg/L	12 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
beta-BHC	µg/L	11 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	12	0.050 U	0.050 U	0.092	0.050 U	0.048 J	0.035 J	0.060
Dieldrin	µg/L	0.60 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	µg/L	0.30 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	2.3	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	µg/L	0.60 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	µg/L	1.9	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone	µg/L	0.60 U	0.10 U	0.10 U	0.17 U	0.10 U	0.10 U	0.10 U	0.10 U
gamma-BHC (Lindane)	µg/L	7.4 J	0.050 U	0.050 U	0.096	0.050 U	0.050 U	0.048 J	0.050 U
gamma-Chlordane	µg/L	0.47 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L	0.30 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L	1.7 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L	3.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	µg/L	30 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*10225B*	*10225B*	*10225C*	*10270*	*10272*	*10278*	*RINSE BLANK*
	Sample ID:	*LC-10225B-609*	*LC-8225-609*	*LC-10225C-609*	*LC-10270-609*	*LC-10272-609*	*LC-10278-609*	*LC-RINSE2-609*
	Sample Date:	*7/15/2009*	*7/15/2009 (Duplicate)*	*7/13/2009*	*7/8/2009*	*7/8/2009*	*7/8/2009*	*7/8/2009*
Parameters	*Units*							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	2.1 J	2.1 J	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	10 U	10 U	6.8 J	10 U	10 U	10 U	10 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

Parameters	*Units*	*Sample Location:* 10225B *Sample ID:* LC-10225B-609 *Sample Date:* 7/15/2009	*10225B* *LC-8225-609* *7/15/2009* *(Duplicate)*	*10225C* *LC-10225C-609* *7/13/2009*	*10270* *LC-10270-609* *7/8/2009*	*10272* *LC-10272-609* *7/8/2009*	*10278* *LC-10278-609* *7/8/2009*	*RINSE BLANK* *LC-RINSE2-609* *7/8/2009*
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	4.5 J	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	µg/L	25 UJ	25 UJ	25 U	25 U	25 U	25 U	25 U
4-Bromophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	µg/L	25 U	25 U	25 UJ	25 UJ	25 UJ	25 UJ	25 U
4-Nitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

Parameters	*Units*	*Sample Location:* 10225B *Sample ID:* LC-10225B-609 *Sample Date:* 7/15/2009	*10225B* *LC-8225-609* *7/15/2009* *(Duplicate)*	*10225C* *LC-10225C-609* *7/13/2009*	*10270* *LC-10270-609* *7/8/2009*	*10272* *LC-10272-609* *7/8/2009*	*10278* *LC-10278-609* *7/8/2009*	*RINSE BLANK* *LC-RINSE2-609* *7/8/2009*
Semi-volatile Organic Compounds (Cont'd.)								
Benzo(g,h,i)perylene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	µg/L	25 UJ	25 UJ	25 U	25 U	25 U	25 U	25 U
Benzyl Alcohol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	10 U	3.3 J	1.1 J	10 U	1.5 J	10 U	10 U
Butyl benzylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	25 UJ	25 UJ	25 U	25 U	25 U	25 U	25 U
Phenanthrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pesticides								
4,4'-DDD	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE JULY 2009

	Sample Location:	*10225B*	*10225B*	*10225C*	*10270*	*10272*	*10278*	*RINSE BLANK*
	Sample ID:	*LC-10225B-609*	*LC-8225-609*	*LC-10225C-609*	*LC-10270-609*	*LC-10272-609*	*LC-10278-609*	*LC-RINSE2-609*
	Sample Date:	*7/15/2009*	*7/15/2009 (Duplicate)*	*7/13/2009*	*7/8/2009*	*7/8/2009*	*7/8/2009*	*7/8/2009*
Parameters	*Units*							
Pesticides (Cont'd.)								
4,4'-DDT	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	0.032 J	0.050 U	0.12	0.050 U	0.038 J	0.072	0.050 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1016 (PCB-1016)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221 (PCB-1221)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232 (PCB-1232)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242 (PCB-1242)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248 (PCB-1248)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254 (PCB-1254)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260 (PCB-1260)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	0.061	0.050 U	0.10	0.050 U	0.050 U	0.031 J	0.050 U
Dieldrin	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
gamma-BHC (Lindane)	µg/L	0.028 J	0.050 U	0.12	0.025 J	0.028 J	0.047 J	0.050 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Compound*	*Calibration Date*	*RSD*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
SVOCs	Benzoic acid	07/14/09	40	LC-10105-709	25 UJ	µg/L
				LC-8120-709	25 UJ	µg/L
				LC-9110-709	25 UJ	µg/L
				LC-9115-709	25 UJ	µg/L
				LC-9120-709	25 UJ	µg/L
				LC-9125-709	1.3 J	µg/L
				LC-9130-709	1.6 J	µg/L
				LC-9140-709	25 UJ	µg/L
SVOCs	Pentachlorophenol	07/27/09	38	LC-10210A-609	25 UJ	µg/L
				LC-10225A-609	25 UJ	µg/L
				LC-10225B-609	25 UJ	µg/L
				LC-8210-609	25 UJ	µg/L
				LC-8225-609	25 UJ	µg/L
				LC-9205-609	25 UJ	µg/L
SVOCs	Benzoic acid	07/27/09	77	LC-10210A-609	5.8 J	µg/L
				LC-10225A-609	14 J	µg/L
				LC-10225B-609	25 UJ	µg/L
				LC-8210-609	1 J	µg/L
				LC-8225-609	25 UJ	µg/L
				LC-9205-609	25 UJ	µg/L

Notes:

J Estimated.
RSD Relative Standard Deviation.
SVOCs Semi-Volatile Organic Compounds.
UJ Not detected, estimated reporting limit.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
SVOCs	07/15/09	2,4-Dimethylphenol	32	LC-10105-709	10 UJ	µg/L
				LC-8120-709	10 UJ	µg/L
				LC-9130-709	10 UJ	µg/L
				LC-9140-709	10 UJ	µg/L
SVOCs	07/15/09	Hexachlorocyclo[pentadiene	26	LC-10105-709	10 UJ	µg/L
				LC-8120-709	10 UJ	µg/L
				LC-9130-709	10 UJ	µg/L
				LC-9140-709	10 UJ	µg/L
SVOCs	07/15/09	3-Nitroaniline	28	LC-10105-709	25 UJ	µg/L
				LC-8120-709	25 UJ	µg/L
				LC-9130-709	25 UJ	µg/L
				LC-9140-709	25 UJ	µg/L
SVOCs	07/15/09	2,4-Dinitrophenol	92	LC-10105-709	25 UJ	µg/L
				LC-8120-709	25 UJ	µg/L
				LC-9130-709	25 UJ	µg/L
				LC-9140-709	25 UJ	µg/L
SVOCs	07/15/09	4-Nitrophenol	28	LC-10105-709	25 UJ	µg/L
				LC-8120-709	25 UJ	µg/L
				LC-9130-709	25 UJ	µg/L
				LC-9140-709	25 UJ	µg/L
SVOCs	07/15/09	4,6-Dinitro-2-methylphenol	66	LC-10105-709	25 UJ	µg/L
				LC-8120-709	25 UJ	µg/L
				LC-9130-709	25 UJ	µg/L
				LC-9140-709	25 UJ	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
SVOCs	07/15/09	Pentachlorophenol	28	LC-10105-709	25 UJ	µg/L
				LC-8120-709	25 UJ	µg/L
				LC-9130-709	25 UJ	µg/L
				LC-9140-709	25 UJ	µg/L
SVOCs	07/15/09	Indeno(1,2,3-cd)pyrene	27	LC-10105-709	10 UJ	µg/L
				LC-8120-709	10 UJ	µg/L
				LC-9130-709	10 UJ	µg/L
				LC-9140-709	10 UJ	µg/L
SVOCs	07/15/09	Benzo(g,h,i)perylene	37	LC-10105-709	10 UJ	µg/L
				LC-8120-709	10 UJ	µg/L
				LC-9130-709	10 UJ	µg/L
				LC-9140-709	10 UJ	µg/L
SVOCs	07/15/09	Benzoic acid	39	LC-10105-709	25 UJ	µg/L
				LC-8120-709	25 UJ	µg/L
				LC-9130-709	1.6 J	µg/L
				LC-9140-709	25 UJ	µg/L
SVOCs	07/06/09	2,4-Dinitrophenol	39	LC-10135-609	38 UJ	µg/L
				LC-3257-609	25 UJ	µg/L
				LC-7120-609	25 UJ	µg/L
				LC-7130-609	25 UJ	µg/L
				LC-7132-609	25 UJ	µg/L
				LC-7155-609	25 UJ	µg/L
				LC-8106-609	25 UJ	µg/L
				LC-8110-709	25 UJ	µg/L
				LC-8205-609	38 UJ	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
SVOCs	07/06/09	Benzoic acid	62	LC-10135-609	54000 J	µg/L
				LC-3257-609	4.8 J	µg/L
				LC-7120-609	25 UJ	µg/L
				LC-7130-609	25 UJ	µg/L
				LC-7132-609	5.5 J	µg/L
				LC-7155-609	25 UJ	µg/L
				LC-8106-609	25 UJ	µg/L
				LC-8110-709	25 UJ	µg/L
				LC-8205-609	39000 J	µg/L
SVOCs	07/07/09	2,2'-oxybis(1-Chloropropane)	28	LC-7161-609	10 UJ	µg/L
				LC-8130-709	10 UJ	µg/L
SVOCs	07/07/09	Pentachlorophenol	32	LC-7161-609	25 UJ	µg/L
				LC-8130-709	25 UJ	µg/L
SVOCs	07/07/09	3,3'-Dichlorobenzidine	26	LC-7161-609	10 UJ	µg/L
				LC-8130-709	10 UJ	µg/L
SVOCs	07/09/09	2-Methylnaphthalene	29	LC-8140-709	10 UJ	µg/L
SVOCs	07/09/09	3-Nitroaniline	26	LC-8140-709	25 UJ	µg/L
SVOCs	07/09/09	Pentachlorophenol	38	LC-8140-709	25 UJ	µg/L
SVOCs	07/09/09	Benzoic acid	33	LC-8140-709	25 UJ	µg/L
VOCs	07/14/09	Chloromethane	29	LC-10210B-709	10 UJ	µg/L
				LC-8215-709	10 UJ	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	07/14/09	Chloroethane	28	LC-10210B-709	10 UJ	µg/L
				LC-8215-709	10 UJ	µg/L
VOCs	07/14/09	2-Butanone	28	LC-10210B-709	10 UJ	µg/L
				LC-8215-709	10 UJ	µg/L
VOCs	07/17/09	Chloromethane	40	LC-10147-609	10 UJ	µg/L
				LC-10205-609	10 UJ	µg/L
				LC-10210A-609	10 UJ	µg/L
				LC-10210C-609	10 UJ	µg/L
				LC-10215-609	10 UJ	µg/L
				LC-10225A-609	10 UJ	µg/L
				LC-10225B-609	10 UJ	µg/L
				LC-10225C-609	10 UJ	µg/L
				LC-8210-609	10 UJ	µg/L
				LC-8225-609	10 UJ	µg/L
				LC-9205-609	10 UJ	µg/L
				LC-9210-609	10 UJ	µg/L
VOCs	07/17/09	Acetone	31	LC-10147-609	10 UJ	µg/L
				LC-10205-609	10 UJ	µg/L
				LC-10210A-609	10 UJ	µg/L
				LC-10210C-609	10 UJ	µg/L
				LC-10215-609	10 UJ	µg/L
				LC-10225A-609	10 UJ	µg/L
				LC-10225B-609	10 UJ	µg/L
				LC-10225C-609	10 UJ	µg/L
				LC-8210-609	10 UJ	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	07/17/09	Acetone	31	LC-8225-609	10 UJ	µg/L
				LC-9205-609	10 UJ	µg/L
				LC-9210-609	10 UJ	µg/L
VOCs	07/17/09	Carbon tetrachloride	26	LC-10147-609	10 UJ	µg/L
				LC-10205-609	10 UJ	µg/L
				LC-10210A-609	10 UJ	µg/L
				LC-10210C-609	10 UJ	µg/L
				LC-10215-609	10 UJ	µg/L
				LC-10225A-609	10 UJ	µg/L
				LC-10225B-609	10 UJ	µg/L
				LC-10225C-609	10 UJ	µg/L
				LC-8210-609	10 UJ	µg/L
				LC-8225-609	10 UJ	µg/L
				LC-9205-609	10 UJ	µg/L
				LC-9210-609	10 UJ	µg/L
VOCs	07/17/09	1,2-Dichloroethane	26	LC-10147-609	10 UJ	µg/L
				LC-10205-609	10 UJ	µg/L
				LC-10210A-609	10 UJ	µg/L
				LC-10210C-609	10 UJ	µg/L
				LC-10215-609	10 UJ	µg/L
				LC-10225A-609	10 UJ	µg/L
				LC-10225B-609	10 UJ	µg/L
				LC-10225C-609	10 UJ	µg/L
				LC-8210-609	10 UJ	µg/L
				LC-8225-609	10 UJ	µg/L
				LC-9205-609	10 UJ	µg/L
				LC-9210-609	10 UJ	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
SVOCs	07/22/09	4-Nitroaniline	44	LC-10174A-609	25 UJ	µg/L
				LC-10270-609	25 UJ	µg/L
				LC-10272-609	25 UJ	µg/L
				LC-10278-609	25 UJ	µg/L
				LC-5221-609	25 UJ	µg/L
				LC-6209-609	25 UJ	µg/L
				LC-7205-609	25 UJ	µg/L
				LC-10147-609	25 UJ	µg/L
				LC-10205-609	25 UJ	µg/L
				LC-10210B-709	25 UJ	µg/L
				LC-10210C-609	25 UJ	µg/L
				LC-10215-609	25 UJ	µg/L
				LC-10225C-609	25 UJ	µg/L
				LC-8215-709	25 UJ	µg/L
				LC-9210-609	25 UJ	µg/L
SVOCs	07/28/09	4,6-Dinitro-2-methylphenol	33	LC-10210A-609	25 UJ	µg/L
				LC-10225A-609	25 UJ	µg/L
				LC-10225B-609	25 UJ	µg/L
				LC-8210-609	25 UJ	µg/L
				LC-8225-609	25 UJ	µg/L
				LC-9205-609	25 UJ	µg/L

Notes:

% D Percent Difference.
J Estimated.
SVOCs Semi-Volatile Organic Compounds.
UJ Not detected, estimated reporting limit.
VOCs Volatile Organic Compounds.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING SURROGATE RECOVERIES
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Surrogate*	*Surrogate Recovery (percent)*	*Control Limits (percent)*	*Sample ID*	*Analytes*	*Qualified Sample Results*	*Units*
Pesticide/PCB	DCB	27	30 - 150	LC-7161-609	Heptachlor epoxide	0.050 UJ	µg/L
					Endosulfan sulfate	0.10 UJ	µg/L
					Aroclor-1260 (PCB-1260)	1.0 UJ	µg/L
					Aroclor-1254 (PCB-1254)	1.0 UJ	µg/L
					Aroclor-1221 (PCB-1221)	1.0 UJ	µg/L
					Aroclor-1232 (PCB-1232)	1.0 UJ	µg/L
					Aroclor-1248 (PCB-1248)	1.0 UJ	µg/L
					Aroclor-1016 (PCB-1016)	1.0 UJ	µg/L
					Aldrin	0.050 UJ	µg/L
					alpha-BHC	0.050 UJ	µg/L
					beta-BHC	0.050 UJ	µg/L
					delta-BHC	0.050 UJ	µg/L
					Endosulfan II	0.10 UJ	µg/L
					4,4'-DDT	0.10 UJ	µg/L
					alpha-Chlordane	0.050 UJ	µg/L
					gamma-Chlordane	0.050 UJ	µg/L
					Aroclor-1242 (PCB-1242)	1.0 UJ	µg/L
					Endrin ketone	0.10 UJ	µg/L
					gamma-BHC (Lindane)	0.050 UJ	µg/L
					Dieldrin	0.10 UJ	µg/L
					Endrin	0.10 UJ	µg/L
					Methoxychlor	0.50 UJ	µg/L
					4,4'-DDD	0.10 UJ	µg/L

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING SURROGATE RECOVERIES
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Surrogate*	*Surrogate Recovery (percent)*	*Control Limits (percent)*	*Sample ID*	*Analytes*	*Qualified Sample Results*	*Units*
Pesticide/PCB	DCB	27	30 - 150	LC-7161-609	4,4'-DDE	0.10 UJ	µg/L
					Heptachlor	0.050 UJ	µg/L
					Toxaphene	5.0 UJ	µg/L
					Endosulfan I	0.050 UJ	µg/L

Notes:

DCB Dechchlorobiphenyl.
PCB Polychlorinated Biphenyl.
UJ Not detected, estimated reporting limit.

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*		
Pest/PCB	LC-6209-609	Heptachlor	6	19	104	40 - 131	20	R	µg/L

Notes:

MS Matrix Spike.
MSD Matrix Spike Duplicate.
PCB Polychlorinated Biphenyl.
RPD Rejected.
RPD Relative Percent Difference.

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO DIFFERENCES IN DUAL COLUMN RESULTS
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
JUNE/JULY 2009

Parameter	*Compound*	*Associated Sample ID*	*%D*	*Sample Results*		*Units*	*Qualified Reported Results*
				Column 1	*Column 2*		
Pesticide/PCB	Heptachlor epoxide	LC-10135-609	31	1.6	2.1	µg/L	1.6J
	Endosulfan sulfate		64	2.4	1.5	µg/L	1.5J
	Aroclor-1260 (PCB-1260)		82	11	20	µg/L	11U
	Aldrin		89	1	0.55	µg/L	0.55J
	Endosulfan II		43	1.6	2.3	µg/L	1.6J
	gamma-Chlordane		175	1.6	0.59	µg/L	0.59U
	Endrin		32	1.3	1.7	µg/L	1.3J
	Heptachlor		760	2.1	0.25 J	µg/L	0.30U
	alpha-BHC		28	27	35	µg/L	27J
	beta-BHC		47	13	9.1	µg/L	9.1J
	gamma-BHC (Lindane)		44	9	6.2	µg/L	6.2J
Pesticide/PCB	Aldrin	LC-8205-609	66	0.91	0.55	µg/L	0.55J
	Heptachlor epoxide		31	1.7	2.3	µg/L	1.7J
	4,4'-DDE		698	2.5	0.32	µg/L	0.60U
	gamma-Chlordane		277	1.8	0.47	µg/L	0.47U
	alpha-BHC		28	32	41	µg/L	32J
	beta-BHC		35	15	11	µg/L	11J
	gamma-BHC (Lindane)		34	9.9	7.4	µg/L	7.4J
	Aroclor-1260 (PCB-1260)		50	18	12	µg/L	12J
Pesticide/PCB	beta-BHC	LC-10205-609	134	0.097	0.042	µg/L	0.05U
	Heptachlor		160	0.066	0.025	µg/L	0.05U
	Aldrin		172	0.13	0.048	µg/L	0.05U
	Endrin ketone		168	0.17	0.46	µg/L	0.17U
Pesticide/PCB	beta-BHC	LC-10225C-609	67	0.052	0.031	µg/L	0.05U

Notes:

% D	Percent Difference.
J	Estimated.
PCB	Polychlorinated Biphenyl.
U	Not detected.

ATTACHMENT A

TENTATIVE IDENTIFIED COMPOUNDS

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-10135-609	Furan, tetrahydro-2-methyl-	120J	Benzene, 1-chloro-4-methyl-	2900J
	1,4-Dioxane	13J	Benzene, 1,2-chloro-4-meth	460J
	Benzene, 1-chloro-3-methyl-	4700J	Benzene, 1,4-chloro-2-meth	690J
	Benzene, 1-chloro-4-methyl-	2000J	Benzene, 1,2-chloro-3-meth	240J
	7-Oxabicyclo[2.2.1]heptane	19J	Propanedioic acid, phenyl-	260J
	Benzene, 1-methyl-3-(1-methy	36J	Terpin hydrate	100J
	Eucalyptol	21J	Benzoic acid, 4-chloro-	9400J
	Benzene, 1-bromo-3-methyl-	7.4J	.alpha.-Lindane	28J
	Bicyclo[2.2.1]heptane-2-one,	41J	Phenol, 2,3,4-trichloro-	29J
	Benzene, 1,2-dichloro-3-meth	720J	Methanone, (3-methylphenyl)p	29J
	Fenchol, exo-	19J	Cyclic octaatomic sulfur	20J
	Benzene, 1,2-chloro-4-meth	200J	Benzoic acid, 4-benzoyl-	240J
	Camphor	41J	Hexagol	38J
	Benzene, 1,2,3-trichloro-	15J	1,4,7,10,13,16-Hexaoxanonade	38J
	Benzene, 1,2,4-trichloro-3-m	61J	Heptaethylene glycol	54J
	Benzene, 1,2,3-trichloro-4-m	11J	Unknown	20500J
	Unknown	210J	-	-
LC-8205-609	2-Pentanone	26J	Benzene, 1-chloro-3-(chlorom	170J
	1,4-Dioxane	15J	Benzene, 1,3-dichloro-2-meth	210J
	Benzene, 1-chloro-2-methyl-	4400J	Benzene, 1,2-dichloro-3-meth	75J
	Benzene, 1-chloro-4-methyl-	1900J	m-Chlorobenzyl alcohol	1000J
	7-Oxabicyclo[2.2.1]heptane	19J	Propanedioic acid, phenyl-	79J

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-8205-609	Benzene, 1-methyl-2-(1-methy	35J	Benzoic acid, 3-chloro-	23000J
	Eucalyptol	20J	trans-2-Phenyl-1-cyclohexano	39J
	Benzene, 1-bromo-3-methyl-	7.5J	Sulfur	43J
	Bicyclo[2.2.1]heptane-2-one,	73J	.alpha.-Lindane	23J
	Benzene, 1,2-dichloro-3-meth	900J	Phenol, 2,3,6-trichloro-	33J
	Bicyclo[2.2.1]heptan-2-ol, 1	21J	Methanone, (4-methylphenyl)p	32J
	Benzene, 1,2,3-trichloro-	15J	Benzoic acid, 4-benzoyl-	310J
	Benzene, 1,2,4-trichloro-3-m	32J	Unknown	13000J
	Benzene, 1,2,3-trichloro-4-m	49J	-	-
	Unknown	330J	-	-
LC-7155-609	Benzene, 1-chloro-2-methyl-	8.7J	Unknown	31J
	Benzene, 1-chloro-3-methyl-	5.3J	-	-
	Unknown	8.8J	-	-
LC-9140-709	Furan, tetrahydro-2,5-dimeth	9.8J	Ethanol, 2-(2-ethoxyethoxy)-	11J
	Unknown	77J	Octanoic acid	5.2J
	-	-	Benzenesulfonamide, 4-methyl	2.5J
	-	-	n-Hexadecanoic acid	8.5J
	-	-	Hexagol	750J
	-	-	Tridecane, 1-iodo-	24J
	-	-	Heptaethylene glycol	790J
	-	-	Octaethylene glycol	93J

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-9140-709	-	-	Heptacosane, 1-chloro-	5.6J
	-	-	Unknown	393J
LC-3257-609	-	-	Cyclic octaatomic sulfur	1500J
LC-7161-609	-	-	Heptaethylene glycol	21J
	-	-	Hexagol	49J
	-	-	1,4,7,10,13,16-Hexaoxanonade	88J
	-	-	Unknown	147J
LC-8106-609	-	-	Unknown	3.1J
LC-7132-609	-	-	1-Nonadecene	4.0J
	-	-	1-Hexacosanol	8.5J
	-	-	Unknown	95J
LC-7130-609	-	-	Sulfur	2.0J
	-	-	Cyclic octaatomic sulfur	7.6J
	-	-	Unknown	2.6J
LC-7120-609	-	-	2,5,8,11,14-Pentaoctahexadeca	60J
	-	-	Hexagol	16J
	-	-	Unknown	198J

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-8110-709	-	-	Hexanedioic acid, dioctyl es	53J
	-	-	Unknown	66J
LC-8130-709	-	-	Hexagol	46J
	-	-	1,4,7,10,13,16-Hexaoxanonade	39J
	-	-	Unknown	100J
LC-8140-709	-	-	Dodecl acrylate	30J
	-	-	n-Hexadecanoic acid	21J
	-	-	Heptaethylene glycol	110J
	-	-	Hexagol	26J
	-	-	1,4,7,10,13,16-Hexaoxanonade	163J
	-	-	Tridecane, 1-iodo-	4.8J
	-	-	Unknown	166J
LC-9110-709	-	-	Pentaethylene glycol	8.9J
	-	-	Hexagol	21J
	-	-	Heptaethylene glycol	53J
	-	-	Unknown	41J
LC-9115-709	-	-	Octadecane, 1-chloro-	2.1J
	-	-	Unknown	2.1J

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-9125-709	-	-	Tridecane, 1-iodo-	2.3J
	-	-	1,4,7,10,13,16-Hexaoxacycloo	3.3J
	-	-	Unknown	5.4J
LC-8120-709	-	-	1-Hexanol, 2-ethyl-	74J
	-	-	Hexanoic acid, 2-ethyl-	15J
	-	-	1,4,7,10,13,16-Hexaoxacycloo	2.7J
	-	-	Octaethylene glycol	36J
	-	-	Unknown	72J
LC-9130-709	-	-	1,4,7,10,13,16-Hexaoxacycloo	15J
	-	-	n-Hexadecanoic acid	7.2J
	-	-	Heptacosane, 1-chloro-	24J
	-	-	Unknown	166J
LC-10210A-609	Methanethiol	290J	Dimethyl trisulfide	81J
	Dimethyl sulfide	420J	Tetrasulfide, dimethyl	70J
	Ethane, (methythio)-	39J	Phenol, 2,4-bis(1,1-dimethyl	22J
	Unknown	38J	Hexagol	29J
	-	-	Unknown	1623J

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-10210B-709	-	-	Pentaethylene glycol	28J
	-	-	1-Iodo-2-methylundecane	27J
	-	-	Hexagol	82J
	-	-	Octadecane, 1-iodo-	34J
	-	-	Unknown	1860J
LC-10210C-609	-	-	Pentaethylene glycol	9.8J
	-	-	Hexagol	36J
	-	-	Heptaethylene glycol	33J
	-	-	Unknown	1422J
LC-10225A-609	Methanethiol	270J	Dimethyl trisulfide	110J
	Dimethyl sulfide	420J	Tetrasulfide, dimethyl	97J
	Ethane, (methythio)-	40J	Phenol, 2,4-bis(1,1-dimethyl	50J
	Unknown	35J	Pentaethylene glycol	16J
	-	-	Hexagol	177J
	-	-	15-Crown-5	14J
	-	-	Unknown	1408J
LC-10225B-609	Methanethiol	47J	Pentaethylene glycol	7.5J
	Dimethyl sulfide	5.4J	Hexagol	87J
	-	-	Octadecane, 1-iodo-	15J
	-	-	Unknown	2307J

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-10225C-609	-	-	Benzene, 1-chloro-2-methyl-	4.1J
	-	-	Pentaethylene glycol	5.3J
	-	-	Sulfur	1300J
	-	-	Hexagol	29J
	-	-	Unknown	11J
LC-8225-609	Methanethiol	17J	Hexagol	18J
	-	-	Unknown	1902J
LC-5221-609	-	-	Unknown	4.4J
LC-6209-609	-	-	Ethanol, 2,2'-[oxybis(2,1-et	2.4J
	-	-	Hexagol	51J
	-	-	1,4,7,10,13,16-Hexaoxanonade	30J
	-	-	Unknown	1366J
LC-7205-609	-	-	Pentaethylene glycol	12J
	-	-	7,9-Di-tert-butyl-1-oxaspiro	3.7J
	-	-	Hexagol	111J
	-	-	Octadecane, 1-iodo-	16J
	-	-	1,4,7,10,13,16-Hexaoxanonade	43J
	-	-	Unknown	76J

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-10270-609	-	-	Pentaethylene glycol	5.5J
	-	-	7,9-Di-tert-butyl-1-oxaspiro	7.3J
	-	-	Hexagol	34J
	-	-	Octadecane, 1-iodo-	14J
	-	-	1,4,7,10,13,16-Hexaoxanonade	8J
	-	-	Unknown	1000J
LC-10272-609	-	-	Pentaethylene glycol	4.1J
	-	-	7,9-Di-tert-butyl-1-oxaspiro	2.6J
	-	-	Heptaethylene glycol	36J
	-	-	Hexagol	24J
	-	-	Octadecane, 1-iodo-	35J
	-	-	Unknown	28J
LC-10278-609	-	-	7,9-Di-tert-butyl-1-oxaspiro	2.0J
LC-8215-709	-	-	Pentaethylene glycol	8.6J
	-	-	Sulfur	2900J
	-	-	Hexagol	36J
	-	-	Octadecanoic acid, butyl est	2.9J
	-	-	1,4,7,10,13,16-Hexaoxanonade	14J
	-	-	Unknown	35J

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-9210-609	-	-	Ethanol, 2,2'-[oxybis(2,1-et	3.0J
	-	-	Pentaethylene glycol	71J
	-	-	Octadecane, 1-iodo-	13J
	-	-	Unknown	1545J
LC-10205-609	-	-	Benzene, 1,2,3,4-tetrachloro	4.5J
	-	-	Benzene, pentachloro	9.2J
	-	-	Cyclopentene, octachloro-	2.7J
	-	-	Pentaethylene glycol	4.5J
	-	-	Cyclic octaatomic sulfur	3300J
	-	-	Hexagol	32J
	-	-	Naphthalene, octachloro-	11J
LC-10215-609	-	-	Ethanol, 2,2'-[oxybis(2,1-et	2.0J
	-	-	Octadecanal	2.4J
	-	-	Sulfur	1400J
	-	-	Hexagol	36J
	-	-	Unknown	57J
LC-10147-609	-	-	Ethanol, 2,2'-[oxybis(2,1-et	9.5J
	-	-	Pentaethylene glycol	42J
	-	-	Hexagol	120J

ATTACHMENT A

TENTATIVELY IDENTIFIED COMPOUNDS SUMMARY
LONG-TERM MONITORING PROGRAM
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
LOVE CANAL
NIAGARA FALLS, NEW YORK
JUNE/JULY 2009

	Volatiles		*Semi-Volatiles*	
Sample ID	*Compound*	*Estimated Concentration (µg/L)*	*Compound*	*Estimated Concentration (µg/L)*
LC-10147-609	-	-	Hexadecane, 1-iodo-	6.6J
	-	-	Heptaethylene glycol	390J
	-	-	Octaethylene glucol	65J
	-	-	Unknown	160J
LC-9205-609	-	-	Hexagol	6.3J
	-	-	Unknown	8.6J
LC-8210-609	-	-	Octadecane, 1-iodo-	6.2J
	-	-	Unknown	8.7J

Notes:

J Estimated.

ATTACHMENT B

CHAIN OF CUSTODY DOCUMENT(S)

CHAIN OF CUSTODY RECORD Due Date: 7/30/09

Miller Springs Remediation Occidental Chemical	SHIP TO (LABORATORY NAME): **Mitkem Labs** 175 Metro Center Blvd. Warwick, RI 02886	REFERENCE NUMBER: **LOVE CANAL** **Annual Long Term Monitoring Program** **292-402-999-3100**	SAMPLE RESULTS REPORTING TO: Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160 **Mailing Address:** CRA 2055 Niagara Falls Blvd. Suite Three NIAGARA FALLS, NY 14304
FACILITY LOCATION:	SAMPLER(S) (PRINT NAME) **DJT/SG**	SIGNATURE Shaun Haudrich	

DATE	TIME	SAMPLE NO. H1183	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	SVOC	VOA	PESTICIDES	PRESERVED	REMARKS
06/25/09	9:15	LC-3257-609 01		X		*	7	2	3	2	-	ALL SAMPLES STORED
06/25/09	9:45	LC-7161-609 02		X		*	7	2	3	2		AND SHIPPED IN COOLER(S)
06/25/09	10:10	LC-8106-609 03		X		*	7	2	3	2		WITH ICE/ICE PACKS AND
06/25/09	11:30	LC-10135-609 04		X		*	7	2	3	2		KEPT AT 4c
06/25/09	11:40	LC-8205-609 05		X		*	7	2	3	2		TRIP DATE = 5/3/2007
06/25/09	12:00	LC-Rinse1-609 06		X		*	7	2	3	2		
												SAMPLE CODE
												GSHLCA
												BNA AND PESTICIDE 950ML
												VOA 40ML
~~06/25/09~~		~~LCTRIP62509~~			~~X~~	~~40 mL G~~	~~1~~					
		TOTAL NUMBER OF CONTAINERS					42					

RELINQUISHED BY: Shaun Haudrich	DATE 6/25/09	TIME 1210	RECEIVED BY:	DATE 6/27/09	TIME 11:30 0°C
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : COURIER | SAMPLE TEAM: DJT/SG | CHAIN OF CUSTODY NO: LC-625093

2°C, 2°C, 2°C, 0°C

CHAIN OF CUSTODY RECORD

Due Date : 7/30/09

Miller Springs Remediation Occidental Chemical	SHIP TO (LABORATORY NAME): **Mitkem Labs** 175 Metro Center Blvd. Warwick, RI 02886	REFERENCE NUMBER: **LOVE CANAL** **Annual Long Term Monitoring Program** **292-402-999-3100**
FACILITY LOCATION:	SAMPLER(S) (PRINT NAME) **DJT/SG**	SIGNATURE Shaun Haidner

SAMPLE RESULTS REPORTING TO:

Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160

Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

DATE	TIME	SAMPLE NO.		COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	SVOC	VOA	PESTICIDES	PRESERVED	REMARKS
			H1183										
06/24/09	12:00	LC-7155-609	07		X		*	7	2	3	2	-	ALL SAMPLES STORED
06/24/09	12:45	LC-7132-609	MS/MSD 08		X		*	21	6	9	6		AND SHIPPED IN COOLER(S)
06/24/09	13:30	LC-7130-609	09		X		*	7	2	3	2		WITH ICE/ICE PACKS AND
06/24/09	14:30	LC-7120-609	10		X		*	7	2	3	2		KEPT AT 4c
													TRIP DATE = 5/3/2007
													SAMPLE CODE
													GSHLCA
													BNA AND PESTICIDE 950ML
													VOA 40ML
06/24/09		LCTRIP62409	11			X	40 mL G	2					
		TOTAL NUMBER OF CONTAINERS						42					

RELINQUISHED BY: Shaun Haidner	DATE 6/24/09	TIME 1430	RECEIVED BY:	DATE 6/25/09	TIME 11:30 0°C
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : COURIER | SAMPLE TEAM: DJT/SG | CHAIN OF CUSTODY NO: LC-624093

2°C, 2°C, 2°C, 0°C

CHAIN OF CUSTODY RECORD

Due Date : 7/30/09

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME): Mitkem Labs
175 Metro Center Blvd.
Warwick, RI 02886

REFERENCE NUMBER:
LOVE CANAL
Annual Long Term Monitoring Program
292-402-999-3100

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:

SAMPLER(S) (PRINT NAME): DJT/SG

SIGNATURE: Shawn Madden

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	SVOC	VOA	PESTICIDES	PRESERVED	REMARKS
07/01/09	10:30	LC-8110-709		X		*	7	2	3	2	-	ALL SAMPLES STORED
07/01/09	12:30	LC-8130-709		X		*	21	6	9	6		AND SHIPPED IN COOLER(S)
07/01/09	13:30	LC-8140-709		X		*	7	2	3	2		WITH ICE/ICE PACKS AND
												KEPT AT 4c
												TRIP DATE = 5/3/2007
												SAMPLE CODE
												GSHLCA
												BNA AND PESTICIDE 950ML
												VOA 40ML
07/01/09		LCTRIP7109			X	40 mL G	2					
TOTAL NUMBER OF CONTAINERS							37					

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Shawn Madden	7/1/09	1400		7/2/09	9:30
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : UPS | SAMPLE TEAM: DJT/SG | CHAIN OF CUSTODY NO: LC-71093

5°C, 4°C

CHAIN OF CUSTODY RECORD

Due Date : 7/30/09

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME): Mitkem Labs
175 Metro Center Blvd.
Warwick, RI 02886

REFERENCE NUMBER:
LOVE CANAL
Annual Long Term Monitoring Program
292-402-999-3100

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:

SAMPLER(S) (PRINT NAME): DJT/SG

SIGNATURE: Shawn Hardner

	DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	SVOC	VOA	PESTICIDES	PRESERVED	REMARKS
1163													
16	07/06/09	12:10	LC-9110-709		X		*	7	2	3	2	-	ALL SAMPLES STORED
17	07/06/09	12:30	LC-9115-709		X		*	7	2	3	2		AND SHIPPED IN COOLER(S)
18	07/06/09	13:15	LC-9120-709		X		*	7	2	3	2		WITH ICE/ICE PACKS AND
19	07/06/09	13:45	LC-9125-709		X		*	7	2	3	2		KEPT AT 4c
20	07/07/09	10:45	LC-8120-709		X		*	7	2	3	2		TRIP DATE = 5/3/2007
21	07/07/09	12:30	LC-9130-709		X		*	7	2	3	2		
22	07/07/09	13:30	LC-9140-709		X		*	7	2	3	2		SAMPLE CODE
23	07/07/09	14:00	LC-10105-709		X		*	7	2	3	2		GSHLCA
													BNA AND PESTICIDE 950ML
													VOA 40ML
A	07/07/09		LCTRIP7609			X	40 mL G	2					
			TOTAL NUMBER OF CONTAINERS					58					

RELINQUISHED BY: Shawn Hardner	DATE 7/7/09	TIME 1440	RECEIVED BY:	DATE 7/8/09	TIME 1137
RELINQUISHED BY:	DATE 7/9/09	TIME 11:15	RECEIVED BY:	DATE 7/9/09	TIME 11:15
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : COURIER | SAMPLE TEAM: DJT/SG | CHAIN OF CUSTODY NO: LC-77093

3°C, 3°C, 3°C

CHAIN OF CUSTODY RECORD

Due Date 8/7/09

CONESTOGA-ROVERS & ASSOCIATES

N FALLS OFFICE

SHIPPED TO (Laboratory Name):
MITKEM LABS
175 METRO CENTER BLVD.
WARWICK RI 02886

REFERENCE NUMBER:
LOVE CANAL
ANNUAL GW SAMPLING

SAMPLER'S SIGNATURE: Shawn Gardner PRINTED NAME: SHAWN GARDNER

1263

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS VOC	SVOC	PEST	REMARKS
01	7/8/09	0930	LC-5221-609	WATER	7	3	2	2	
02		1020	LC-6209-609		21	9	6	6	MS/MSD
03		1115	LC-7205-609		7	3	2	2	
04		1200	LC-10270-609		7	3	2	2	
05		1230	LC-10272-609		7	3	2	2	
06		1315	LC-10278-609		7	3	2	2	
07		1400	LC-RINSE 2-609		7	3	2	2	
08			LC TRIP 7809	LAB WATER	2	2			
09		0945	LC-10174A-609	WATER	7	3	2	2	
									2°C
									2°C
									1°C
									1°C

TOTAL NUMBER OF CONTAINERS (5) 65 72 HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① Shawn Gardner	DATE: 7/8/09 TIME: 1500	RECEIVED BY: ①	DATE: 7/9/09 TIME: 15:05
RELINQUISHED BY: ②	DATE: 7/10/09 TIME: 10:10	RECEIVED BY: ② Shirley Ng	DATE: 7/10/09 TIME: 10:10
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:

METHOD OF SHIPMENT: COURIER WAY BILL No.

White	—Fully Executed Copy
Yellow	—Receiving Laboratory Copy
Pink	—Shipper Copy
Goldenrod	—Sampler Copy

SAMPLE TEAM:
D TYRAN
S. GARDNER

RECEIVED FOR LABORATORY BY:
DATE: TIME:

Nº CRA 19125

1001 (D) APR 28/97(NF) REV. 0 (F-15)

02200

CHAIN OF CUSTODY RECORD

Due Date : 8/7/09

Miller Springs Remediation Occidental Chemical	SHIP TO (LABORATORY NAME): **Mitkem Labs** 175 Metro Center Blvd. Warwick, RI 02886	REFERENCE NUMBER: **LOVE CANAL** **Annual Long Term Monitoring Program** **292-402-999-3100**
FACILITY LOCATION:	SAMPLER(S) (PRINT NAME) **DJT/SG**	SIGNATURE Shaun Gardner

SAMPLE RESULTS REPORTING TO:

Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160

Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

H1263

	DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	SVOC	VOA	PESTICIDES							PRESERVED	REMARKS
10	07/09/09	14:00	LC-10210B-709		X		*	7	2	3	2							-	ALL SAMPLES STORED
11	07/09/09	14:15	LC-8215-709		X		*	7	2	3	2								AND SHIPPED IN COOLER(S)
																			WITH ICE/ICE PACKS AND
																			KEPT AT 4c
																			TRIP DATE = 5/3/2007
																			SAMPLE CODE
																			GSHLCA
																			BNA AND PESTICIDE 950ML
																			VOA 40ML
12	07/10/09		LCTRIP71009			X	40 mL G	2											

TOTAL NUMBER OF CONTAINERS 16

RELINQUISHED BY: Shaun Gardner	DATE 7/10/09	TIME 1430	RECEIVED BY:	DATE 7/11/09	TIME 11:30
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : UPS SAMPLE TEAM: DJT/SG CHAIN OF CUSTODY NO: LC-710093

CHAIN OF CUSTODY RECORD

Due Date: 8/7/09

Miller Springs Remediation Occidental Chemical	SHIP TO (LABORATORY NAME): Mitkem Labs 175 Metro Center Blvd. Warwick, RI 02886	REFERENCE NUMBER: LOVE CANAL Annual Long Term Monitoring Program 292-402-999-3100
FACILITY LOCATION:	SAMPLER(S) (PRINT NAME) DJT/SG	SIGNATURE Shawn Haedrich

SAMPLE RESULTS REPORTING TO:

Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160

Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

H1263

	DATE	TIME	SAMPLE NO.		COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	SVOC	VOA	PESTICIDES	PRESERVED	REMARKS
13	07/13/09	10:45	LC-9210-609			X		*	7	2	3	2	-	ALL SAMPLES STORED
14	07/13/09	11:20	LC-10205-609			X		*	7	2	3	2		AND SHIPPED IN COOLER(S)
15	07/13/09	12:10	LC-10210C-609			X		*	7	2	3	2		WITH ICE/ICE PACKS AND
16	07/13/09	13:40	LC-10225C-609			X		*	7	2	3	2		KEPT AT 4c
17	07/14/09	9:50	LC-10215-609	MS/MSD		X		*	21	6	9	6		TRIP DATE = 5/3/2007
18	07/14/09	11:45	LC-10147-609			X		*	7	2	3	2		
														SAMPLE CODE
														GSHLCA
														BNA AND PESTICIDE 950ML
														VOA 40ML
19	07/13/09		LCTRIP71309				X	40 mL G	2					
			TOTAL NUMBER OF CONTAINERS						58					

RELINQUISHED BY: Shawn Haedrich	DATE 7/14/09	TIME 1215	RECEIVED BY: DEC	DATE 7/15/09	TIME 11:50am
RELINQUISHED BY:	DATE 7/15/09	TIME 21:45	RECEIVED BY: Cygnus R Huntley	DATE 7/15/09	TIME 21:45
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : COURIER | SAMPLE TEAM: DJT/SG | CHAIN OF CUSTODY NO: LC-713093

4°, 4.1°C, 3.8°C

CHAIN OF CUSTODY RECORD

Due Date: 8/7/09

Miller Springs Remediation Occidental Chemical	SHIP TO (LABORATORY NAME): Mitkem Labs 175 Metro Center Blvd. Warwick, RI 02886	REFERENCE NUMBER: LOVE CANAL Annual Long Term Monitoring Program 292-402-999-3100
FACILITY LOCATION:	SAMPLER(S) (PRINT NAME) DJT/SG	SIGNATURE:

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

H1205

	DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	SVOC	VOA	PESTICIDES							PRESERVED	REMARKS
20	07/15/09	8:45	LC-9205-609		X		*	7	2	3	2							-	ALL SAMPLES STORED
21	07/15/09	9:45	LC-8210-609		X		*	7	2	3	2								AND SHIPPED IN COOLER(S)
22	07/15/09	11:00	LC-10210A-609		X		*	7	2	3	2								WITH ICE/ICE PACKS AND
23	07/15/09	11:30	LC-10225A-609		X		*	7	2	3	2								KEPT AT 4c
24	07/15/09	12:15	LC-10225B-609		X		*	7	2	3	2								TRIP DATE = 5/3/2007
25	07/15/09	13:00	LC-8225-609		X		*	7	2	3	2								
																			SAMPLE CODE
																			GSHLCA
																			BNA AND PESTICIDE 950ML
																			VOA 40ML
	07/15/09		LCTRIP71509			X	40 mL G	2											

Program Complete

TOTAL NUMBER OF CONTAINERS 42

RELINQUISHED BY:	DATE 7/15/09	TIME 1145	RECEIVED BY:		DATE 7/15/09	TIME 11:50AM
RELINQUISHED BY:	DATE 7/15/09	TIME 21:45	RECEIVED BY:		DATE 7/15/09	TIME 21:45
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:		DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : COURIER | SAMPLE TEAM: DJT/SG | CHAIN OF CUSTODY NO: LC-715093

5, 53, 41

CHAIN OF CUSTODY RECORD

Due Date : 8/7/09

Miller Springs Remediation Occidental Chemical	SHIP TO (LABORATORY NAME): **Mitkem Labs** 175 Metro Center Blvd. Warwick, RI 02886	REFERENCE NUMBER: **LOVE CANAL** **Annual Long Term Monitoring Program** **292-402-999-3100**
FACILITY LOCATION:	SAMPLER(S) (PRINT NAME) **DJT/SG**	SIGNATURE: Dan Gardner

SAMPLE RESULTS REPORTING TO:

Susan Serocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	SVOC	VOA	PESTICIDES	PRESERVED	REMARKS
07/15/09	11:30	LC-10225A-609		X		*	3		3		-	ALL SAMPLES STORED
												AND SHIPPED IN COOLER(S)
												WITH ICE/ICE PACKS AND
												KEPT AT 4c
												TRIP DATE = 5/3/2007
												SAMPLE CODE
												GSHLCA
												BNA AND PESTICIDE 950ML
												VOA 40ML
07/15/09		LCTRIP71709			X	40 mL G	2					

Program Complete

TOTAL NUMBER OF CONTAINERS 5

RELINQUISHED BY: Dan Gardner	DATE 7/16/09	TIME 1500	RECEIVED BY:	DATE 7/17/09	TIME 1000
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : UPS | SAMPLE TEAM: DJT/SG | CHAIN OF CUSTODY NO: LC-715093

67

APPENDIX E

TEST AND MAINTENANCE OF BACKFLOW PREVENTION DEVICE REPORTS

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection
Flanigan Square, 547 River Street, Room 400
Troy, New York 12180-2216

Report on Test and Maintenance of Backflow Prevention Device

PART A — Please use a separate form for each device.

For the year 2009
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
CITY OF NIAGARA FALLS		NIAGARA		

Facility Name GLEN SPRINGS REMEDIATION
Address 805 97TH ST. (Street) NIAGARA FALLS (City) 14304 (Zip)
Location of Device: TREATMENT BDG. (MECH. ROOM)

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	909	3"	136902

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 71 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 7.4 psid	Leaked ☐ Closed tight ☒	Opened at 2.2 psid	Date 03 / 17 / 09 (M D Y)
Describe repairs and materials used				Repaired by: Name ____ Lic # ____ Date repaired: ____ / ____ / ____ (M D Y)
Final test	Closed tight ☐ Pressure drop across first check valve ____ psid	Closed tight ☐	Opened at ____ psid	Date ____ / ____ / ____ (M D Y)

Water Meter Number	Meter Reading	Type of Service: (check one)
31923329	491453 0158770	(Domestic) • Fire • Other ____

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, • ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.

Print Name	Certified Tester No.	Signature	Expiration Date
JOHN A. GALLA	5808	John A. Galla	04/30/11

Property owner's (or owner's agent) certification that test was performed:

Print Name	Title	Signature	Telephone
Darrell Goulett	Operator	Darrell Goulett	(716) 998-5804

PART B — Certification that installation is in accordance with the approved plans. (To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date (m d y)	NYS DOH Log #
License Number	Phone ( )		

Representing
Address
City | State | Zip
Signature

Describe minor installation changes

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH-1013(9/91)

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection
Flanigan Square, 547 River Street, Room 400
Troy, New York 12180-2216

Report on Test and Maintenance of Backflow Prevention Device

PART A Please use a separate form for each device.

For the year 2009
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
CITY OF NIAGARA FALLS		NIAGARA		

Facility Name GLEN SPRINGS REMEDIATION
Address 805 97TH ST (Street) NIAGARA FALLS (City) 14304 (Zip)
Location of Device: TREATMENT BDG. (WASHDOWN)

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	009	3/4"	82766

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 70 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 6.7 psid	Leaked ☐ Closed tight ☒	Opened at 2.1 psid	Date 03 / 17 / 09 (M D Y)
Describe repairs and materials used				Repaired by Name Lic # Date repaired: M D Y
Final test	Closed tight ☐ Pressure drop across first check valve _____ psid	Closed tight ☐	Opened at _____ psid	Date M D Y

Water Meter Number	Meter Reading	Type of Service: (check one)
N/A	N/A	• Domestic • Fire • Other PROCESS

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, • ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.

Print Name	Certified Tester No.	Signature	Expiration Date
JOHN A GOLBA	5808		04/30/11

Property owner's (or owner's agent) certification that test was performed:

Print Name	Title	Signature	Telephone
Darrell Crockett	Operator		716.998.5804

PART B Certification that installation is in accordance with the approved plans. (To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date (m d y)	NYS DOH Log #
License Number	Phone ( )		

Representing	Describe minor installation changes
Address	
City / State / Zip	
Signature	

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH-1013(9/91)

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection
Flanigan Square, 547 River Street, Room 400
Troy, New York 12180-2216

Report on Test and Maintenance of Backflow Prevention Device

PART A Please use a separate form for each device.

For the year 2009
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
CITY OF NIAGARA FALLS		NIAGARA		

Facility Name GLEN SPRINGS REMEDIATION
Address 805 97TH (Street) NIAGARA FALLS (City) 14304 (Zip)
Location of Device: TREATMENT BLDG. (CARBON BEDS)

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	009	2"	179645

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 70 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 6.9 psid	Leaked ☐ Closed tight ☒	Opened at 2.1 psid	Date 03 17 09 (M D Y)
Describe repairs and materials used				Repaired by Name ____ Lic # ____ Date repaired: ____ (M D Y)
Final test	Closed tight ☐ Pressure drop across first check valve ____ psid	Closed tight ☐	Opened at ____ psid	Date ____ (M D Y)

Water Meter Number	Meter Reading	Type of Service: (check one)
N/A	N/A	• Domestic • Fire • (Other) PROCESS

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, • ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing

I hereby certify the foregoing data to be correct.

Print Name	Certified Tester No.	Signature	Expiration Date
JOHN A. GOLBA	5808		04/30/11

Property owner's (or owner's agent) certification that test was performed:

Print Name	Title	Signature	Telephone
Darrell Crockett	Operator		(716) 998-5804

PART B Certification that installation is in accordance with the approved plans. (To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date (m d y)	NYS DOH Log #
License Number	Phone ( )		

Representing	Describe minor installation changes
Address	
City / State / Zip	
Signature	

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH-1013(9/91)

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection
Flanigan Square, 547 River Street, Room 400
Troy, New York 12180-2216

Report on Test and Maintenance of Backflow Prevention Device

PART A — Please use a separate form for each device.

For the year 2009
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
CITY OF NIAGARA FALLS		NIAGARA		

Facility Name GLEN SPRINGS REMEDIATION
Address 805 97TH ST (Street) NIAGARA FALLS (City) 14304 (Zip)
Location of Device: LOCKER ROOM

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	909	1½"	364807

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 70 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 6.9 psid	Leaked ☐ Closed tight ☒	Opened at 2.1 psid	Date 03 17 09 (M D Y)
Describe repairs and materials used				Repaired by Name Lic # Date repaired: (M D Y)
Final test	Closed tight ☐ Pressure drop across first check valve _____ psid	Closed tight ☐	Opened at _____ psid	Date (M D Y)

Water Meter Number	Meter Reading	Type of Service: (check one)
31671117	009977	• (Domestic) • Fire • Other_____

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, • ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.

Print Name	Certified Tester No.	Signature	Expiration Date
JOHN A. GOLBA	5808		04/30/11

Property owner's (or owner's agent) certification that test was performed:

Print Name	Title	Signature	Telephone
Darrell Crockett	Operator		716 998 5804

PART B — Certification that installation is in accordance with the approved plans. (To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date (m d y)	NYS DOH Log #
License Number	Phone ( )		

Representing	Describe minor installation changes
Address	
City / State / Zip	
Signature	

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH-1013(9/91)

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection
Flanigan Square, 547 River Street, Room 400
Troy, New York 12180-2216

Report on Test and Maintenance of Backflow Prevention Device

PART A Please use a separate form for each device.

For the year 2009
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
CITY OF NIAGARA FALLS		NIAGARA		

Facility Name GLEN SPRINGS REMEDIATION
Address 805 97TH ST. (Street) NIAGARA FALLS (City) 14304 (Zip)
Location of Device: MAINTENANCE BDG.

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	909	1"	408420

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 68 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 7.1 psid	Leaked ☐ Closed tight ☒	Opened at 2.1 psid	Date 03 17 09 (M D Y)
Describe repairs and materials used				Repaired by Name ____ Lic # ____ Date repaired: ____ (M D Y)
Final test	Closed tight ☐ Pressure drop across first check valve ____ psid	Closed tight ☐	Opened at ____ psid	Date ____ (M D Y)

Water Meter Number	Meter Reading	Type of Service: (check one)
34592315	046313	(Domestic) • Fire • Other ____

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, • ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.

Print Name	Certified Tester No.	Signature	Expiration Date
JOHN A. GOLBA	5808		04/30/11

Property owner's (or owner's agent) certification that test was performed:

Print Name	Title	Signature	Telephone
DARRELL CROCKETT	Operator		(716) 998-5804

PART B Certification that installation is in accordance with the approved plans. (To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date (m d y)	NYS DOH Log #
License Number	Phone ( )		

Representing	Describe minor installation changes
Address	
City / State / Zip	
Signature	

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH-1013(9/91)