Stearns & Wheler, LLC
ENVIRONMENTAL ENGINEERS & SCIENTISTS

Report

Groundwater Monitoring Report Monitoring Period: May 2001 General Semiconductor, Inc. Sherburne, New York

August 2001

Stearns & Wheler, LLC
ENVIRONMENTAL ENGINEERS & SCIENTISTS

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August 29, 2001

Mr. John Strang, P.E.
NYSDEC DER
Operations & Maintenance Section
Bureau of Hazardous Site Control
625 Broadway – 11th Floor
Albany, NY 12233-7014

Re: General Semiconductor, Inc.
Sherburne, NY
Site # 7-09-010
S&W File No. 60007.5

Dear Mr. Strang:

Enclosed are two copies of the Groundwater Monitoring Report for the General Semiconductor Site in Sherburne, NY. The report summarizes the results of groundwater monitoring activities in May 2001 and compares the analytical results to the results from the past five sampling rounds.

Please feel free to call if you have any questions on the enclosed report.

Very truly yours,

Diane Clark

Diane K. Clark, DE
Senior Engineer

Enclosures

cc: Barbara Curtis, QR Consulting Group (w/enc.)
Gerald Rider, NYSDEC (w/enc.)
Charles Branagh, NYSDEC Region 7 (w/enc.)
Geoffrey Miller, S&W Services, Inc. (w/enc.)

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GROUNDWATER MONITORING REPORT

MONITORING PERIOD: MAY 2001

GENERAL SEMICONDUCTOR, INC.

SHERBURNE, NEW YORK

Prepared for

GENERAL SEMICONDUCTOR, INC.

Prepared by

STEARNS & WHELER, LLC
Environmental Engineers and Scientists
One Remington Park Drive
Cazenovia, New York 13035

August 2001

Project No. 60007FA

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GROUNDWATER MONITORING REPORT
MONITORING PERIOD: MAY 2001
SHERBURNE SITE
GENERAL SEMICONDUCTOR, INC.

SECTION 1 - INTRODUCTION

This report summarizes the results of the biannual groundwater monitoring which took place at the General Semiconductor, Inc. site in Sherburne, NY in the month of May 2001 to evaluate the performance of the permeable reactive barrier (PRB) in situ groundwater treatment system at the site.

SECTION 2 - GROUNDWATER MONITORING ACTIVITIES

Groundwater samples were collected and depth to groundwater was measured on May 30, 2001. Before groundwater samples were collected, the depth to groundwater was measured in each monitoring well, and three volumes of water were purged from each well using a peristaltic pump. The peristaltic pump was also used for collection of inorganic samples because of its ability to slowly collect a sample from the well, thereby minimizing turbidity in the sample. Disposable bailers were used for the collection of samples for volatile organic compound (VOC) analysis. Field parameters were measured and recorded after purging at each well sampled. Table 1 presents the groundwater elevations, and Table 2 presents field parameters after the wells were purged.

SECTION 3 - GROUNDWATER MONITORING RESULTS

Section 3.1 is a discussion of the analytical results. Section 3.2 is a discussion of site hydrogeologic conditions, specifically the groundwater flow patterns. Section 3.3 is an evaluation of the combined data, providing insight into the changes in groundwater chemistry as the groundwater migrates from up to downgradient through the PRB.

3.1 ANALYTICAL RESULTS

Tables 3 thru 5 summarize the analytical results from the May 2001 sampling event. As indicated, the primary contaminants of concern in the West Field continue to be the chlorinated solvents 1,2-dichloroethene (1,2-DCE), trichloroethene (TCE), and vinyl chloride (VC). Concentrations of these compounds in samples collected from monitoring wells located in the West Field upgradient of the PRB ranged from a high of 2,253 ppb total chlorinated VOCs in the sample from P-8, to a low of no detectable concentrations of total chlorinated VOCs in the samples from Wells MW-24 and MW-29. The average concentration of total chlorinated VOCs in samples from West Field upgradient wells was 519 ppb (MW-17, P-8, MW-22, MW-29, and MW-30, using a value of 5 when no compounds were detected), while the average concentration of chlorinated VOCs in samples from the West Field wells located immediately downgradient of the PRB (MW-23, MW-24, and MW-25) was 7 ppb (using replacement values of 5 and 10 ppb for non-detect concentrations). This represents greater than 98 percent removal or destruction efficiency achieved by the PRB.

1,2-DCE was the compound detected in the highest concentrations in samples from upgradient wells P-8, MW-17, and MW-22. MW-23 was the only corresponding immediate downgradient well with a detectable level (6 ppb). The average destruction efficiency for 1,2-DCE (based on average upgradient and downgradient concentrations calculated using the detection limit as a replacement value for non-detectable concentrations) was 98 percent. TCE and vinyl chloride were detected in three of the upgradient wells (MW-17, P-8, and MW-30) and were not detected in the corresponding immediately downgradient wells.

Samples from MW-20 and MW-21 continued to have low but detectable concentrations of chlorinated VOCs. Concentrations of chlorinated VOCs in the samples from MW-20 have increased from 20.4 ppb in December to 35.4 ppb. VOC concentrations in MW-21 have decreased from 123 ppb in December to 91.4 ppb.

MTBE, a gasoline additive, was detected in the sample from MW-22 at 8.2 ppb. Xylene and ethylbenzene were detected in MW-25 at 26 ppb and 19 ppb, respectively. Other VOCs detected during the May sampling event include chloroethane in P-8 (7.6 ppb) and tetrachloroethene in MW-22 (39 ppb). Petroleum contaminants have also been present in groundwater samples from MW-8 and are thought to be associated with the fuel oil spill that occurred on site.

Table 4 presents the results for the inorganic analyses done on samples from the West Field wells. Iron concentrations exceeded New York State groundwater standards in Samples from two upgradient wells (P-8 and MW-22) and three downgradient monitoring wells (MW-23, MW-24, and MW-25).

3.2 HYDROGEOLOGY

Figure 1 illustrates the groundwater flow patterns for the groundwater elevation data collected during the May 2001 groundwater sampling event. Similar to the flow patterns reported with the data from the previous quarterly monitoring rounds, the groundwater continues to flow west-southwest through the PRB toward the Chenango River. Although groundwater elevation fluctuates from season to season, the gradient through the PRB remains reasonably constant. The gradient through the PRB is approximately 0.016 ft/ft at the southern end between MW-29 and MW23. At the center of the wall, between MW-30 and MW-24, the gradient is approximately 0.026 ft/ft. The chemical data from the May 2001 sampling event continue to indicate that groundwater is flowing through the PRB and is being treated.

3.3 DISCUSSION OF RESULTS

In Section 3.1, the analytical data were compared to NYSDEC groundwater standards. In this section, the analytical results are combined with our understanding of the local hydrogeology to develop a conceptual idea of how the groundwater chemistry is altered as it passes through the native overburden and the PRB. To help in this assessment, the data in Table 6 was used to develop combination analytical concentration isopleths and groundwater contour maps for the May sampling event.

Figures 2, 3, and 4 present computer-generated isopleths for 1,2-DCE, TCE, and VC, respectively. These figures indicate the change in concentration of contaminants of concern as the groundwater flows through the PRB. In addition to the concentration isopleths, groundwater contours and flow lines have been placed on the maps. These maps are scaled based on the coordinates generated during the 1998 December site survey.

Figure 2 illustrates the concentrations of 1,2-DCE in the groundwater samples during May 2000. As stated in previous sections of this report, the highest concentrations of 1,2-DCE were found in the samples collected from P-8 and MW-17. The concentration of 1,2-DCE drops from up to

downgradient, from 1,600 ppb at P-8, to 160 ppb at MW-17, to non-detectable concentrations (less than 10 ppb) at MW-25. This drop is illustrated with the color change from orange to blue. The groundwater flow patterns indicate that the groundwater from the source area migrates through the PRB and toward the Chenango River. It is readily apparent that the concentrations of 1,2-DCE are rapidly reduced as the groundwater moves through the PRB.

Figure 3 is an illustration of the concentrations of TCE in groundwater at the site during May 2001. The concentrations of TCE drop from 610 ppb at P-8 to less than 10 ppb at MW-25. Concentrations at MW-20 (9.4 ppb) are slightly above standard and concentrations at MW-21 (82 ppb) remain elevated. This is likely due to residual concentrations in groundwater that had flowed past the PRB before it was installed.

Figure 4 illustrates VC concentrations in the site groundwater during May 2001. The concentrations of VC dropped from 43 ppb at P-8 to less than 10 ppb at MW-25. It should be noted that MTBE and the other petroleum hydrocarbons (xylene and ethylbenzene) detected in samples from the West Field wells are not treated by the iron PRB. Therefore, the in situ treatment process should not affect concentrations of these VOCs.

A. **Comparison of Results to Historic Data.** Table 6 is a summary of the organic chemistry data from the May monitoring event and the previous five monitoring events. The historic data were used to summarize concentration changes through time at each well sampled and for each compound of concern (1,2-DCE, TCE, and VC). The data summarized in Table 6 were used to generate bar graphs for ease of interpretation of the analytical data.

Figures 5, 6, and 7 are illustrations of VOC concentration trends at each of the monitoring wells. Analytical results for two monitoring rounds in1999, three in 2000, and one in 2001 are plotted for each well. In general, the concentrations of VOC contaminants of concern in the three wells located just west of the PRB have remained low or decreased since the August 1999 sampling round. Concentrations of the VOC contaminants of concern in upgradient wells MW-17 and P-8 appeared to have peaked in 1999, and have since decreased.

Figure 5 illustrates concentrations of 1,2-DCE in 11 of the monitoring wells since August 1999. The concentrations in samples from all the downgradient wells have decreased over time to non-detectable or nearly non-detectable concentrations, with the exception of MW-21. This well is located furthest from the PRB and has had a recent minor increase in concentration of 1,2-DCE.

Concentrations of 1,2-DCE in upgradient wells P-8, MW-17, and MW-18 appear to have reached a high concentration in August-December 1999, and have since decreased.

Figure 6 illustrates concentrations of TCE in the same 11 monitoring wells since August 1999. Historically, the highest concentrations of TCE have been detected consistently in upgradient wells P-8 and MW-18. MW-18 has been decommissioned and is no longer sampled, but P-8 continues to have declining elevated concentrations. The other upgradient wells have consistently had low concentrations of TCE. The three immediately downgradient wells have been associated with non-detectable concentrations, while concentrations in samples from MW-20 and MW-21 have consistently declined.

Finally, Figure 7 illustrates concentrations of VC in the 11 monitoring wells since August 1999. Samples from downgradient monitoring wells MW-23, MW-24, MW-25, and MW-20 have no detectable concentrations of VC. VC was detected in the sample from MW-21 for the first time in May 2000, but has since decreased to non-detect. Concentrations of VC previously found at detectable concentrations in upgradient wells MW-17 and P-8 have decreased since the last sampling event.

SECTION 4 – PLANS FOR FUTURE OPERATIONS

Groundwater monitoring and reporting will continue on a biannual schedule. The next round of groundwater sampling will be in late November.

TABLES

TABLE 1

General Semiconductor, Inc. Site (DHWR site No. 7-09-010)

GROUNDWATER ELEVATIONS

May 2001 Monitoring Event

Monitoring WELL ID	Ground Elevation (ft)	Top of PVC Elevation (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Depth Below Ground (ft)
P-3U	1048.4	1050.72	6.73	1043.99	4.41
P-10U	1048.0	1049.98	5.88	1044.1	3.9
MW-17U	1048.1	1051.20	7.17	1044.03	4.07
P-8U	1049.2	1051.73	7.7	1044.03	5.17
MW-22U*	1048.0	1049.98	6.81	1043.17	4.83
MW-29U	1047.7	1049.72	5.6	1044.12	3.58
MW-30U	1048.1	1050.25	6.19	1044.06	4.04
MW-28W	1048.5	1051.38	7.65	1043.73	4.77
MW-23D	1048.2	1051.18	7.52	1043.66	4.54
MW-24D	1048.3	1051.43	7.79	1043.64	4.66
MW-25D	1048.4	1051.53	7.85	1043.68	4.72
MW-26D	1048.4	1051.38	7.7	1043.68	4.72
MW-27D	1048.4	1051.41	7.76	1043.65	4.75
P-11D	1047.8	1049.92	6.25	1043.67	4.13
MW-21D	1047.8	1050.33	7.4	1042.93	4.87
MW-20D	1046.6	1049.42	6.3	1043.12	3.48

* MW-22U was repaired. Elevations of ground and PVC were surveyed in during May 2001.

TABLE 2

General Semiconductor Inc. Site (DHWR site No. 7-09-010)

GROUNDWATER FIELD PARAMETERS

May 2001 Monitoring Event

Parameter	UPGRADIENT WELLS					
	MW-17U	P-8U	MW-22U	MW-29U	MW-30U	MW-8
Specific Conductance	0.695	0.707	0.668	0.277	0.561	0.830
Turbidity	3	51	128	-9	10	36
Dissolved Oxygen (DO)	4.35	3.02	2.34	1.51	1.55	1.07
pH	7.12	6.44	6.7	6.75	6.73	6.43
Temperature (°C)	10.8	11.2	10.9	10.4	9.9	10.1
Salinty (%)	0.02	0.02	0.02	0.01	0.02	0.03
Eh	89	57	9	53	20	-33
Depth to Groundwater (ft)	7.17	7.7	6.81	5.6	6.19	6.9
Amount water purged (Gal)	6	5	5	5	5	5

Parameter	DOWNGRADIENT WELLS				
	MW-20D	MW-21D	MW-23D	MW-24D	MW-25D
Specific Conductance	0.821	0.721	0.519	0.227	0.322
Turbidity	-6	-3	-5	270	15
Dissolved Oxygen (DO)	1.7	3.06	2.52	3.22	4.21
pH	6.6	6.65	6.43	6.85	6.94
Temperature (°C)	8.3	9.3	9.4	8.7	9.2
Salinty (%)	0.03	0.03	0.02	0.01	0.01
Eh	75	74	4	32	80
Depth to Groundwater (ft)	6.3	7.4	7.52	7.79	7.85
Amount water purged (Gal)	5	5	5	5	5

TABLE 3

General Semiconductor Inc. Site (DHWR site No. 7-09-010)

GROUNDWATER ANALYTICAL RESULTS - TCL VOLATILES

May 2001 Monitoring Event

Compound (ug/l)[1]	GW Std. (ug/l)	UPGRADIENT WELLS					DOWNGRADIENT WELLS					Duplicate
		MW-17U	P-8U	MW-22U	MW-29U	MW-30U	MW-20D	MW-21D	MW-23D	MW-24D	MW-25D	MW-21
Acetone	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<20	
Benzene	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
Carbon Tetrachloride	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
Chloroethane	5	<5	**7.6**	<5	<5	<5	<5	<5	<5	<5	<10	<1
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
Chloromethane	NS	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
1,1-Dichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	2.6
1,2-Dichloroethane	0.6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
1,1-Dichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
1,2-Dichloroethene (total)	5*	**160**	**1600**	**130**	<5	<5	**26**	**82**	**6**	<5	<10	**75**
1,2-Dichloropropane	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
cis-1,3- Dichloropropene	0.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
trans-1,3-Dichloropropene	0.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
Ethylbenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**19**	<1
1,1,2,2-Tetrachloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
Tetrachloroethene	5	<5	<5	**39**	<5	<5	<5	<5	<5	<5	<10	<1
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
1,1,1-Trichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	4.5
1,1,2-Trichloroethane	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1
Trichloroethene	5	**15**	**610**	<5	<5	**8.1**	**9.4**	**57**	<5	<5	<10	**54**
Vinyl chloride	2	**23**	**43**	<5	<5	<5	<5	<5	<5	<5	<10	<1
Xylenes (total)	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	**26**	<1
MTBE	NS	<5	<5	8.2	<5	<5	<5	<5	<5	<5	<10	<1
Naphthalene	10G	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1

Standards based on Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC June 1998)

Bold face indicates locations of concentrations above standards

NS: No Standard

G: Guidance Value

*Per isomer

TABLE 4

General Semiconductor Inc. Site (DHWR site No. 7-09-010)

GROUNDWATER ANALYTICAL RESULTS - INORGANICS

May 2001 Monitoring Event

Compound (mg/l)[1]	GW Std. (mg/l)	UPGRADIENT WELLS				DOWNGRADIENT WELLS		
		P-8U	MW-22U	MW-29U	MW-30U	MW-23D	MW-24D	MW-25D
Alkalinity	NS	300	240	110	230	200	120	78
Chloride	250	46	40	6.6	26	28	12	30
Sulfate	250	12	18	17	14	16	20	2.7
Iron	0.5	**0.57**	**3.8**	<.05	0.1	**1.3**	**28**	**0.95**
Calcium	NS	100	90	42	78	71	120	23
Magnesium	35 G	16	15	5.6	12	11	34	5.1
Sodium	20	**27**	25	5.2	20	20	14	20
Potasium	NS	1.7	5.2	1.3	1.8	6.2	2.6	<1

[1] For December monitoring samples are only analalyzed for Alkalinity, calcium, iron, and magnesium.

Standards based on TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC June 1998)

Bold face indicates locations of concentrations above standards

NS: No Standard

G: Guidance Value

TABLE 5

General Semiconductor, Inc. Site (DHWR site No. 7-09-010)

MW - 8 ANALYTICAL RESULTS

May 2001 Monitoring Event

Volatile Organic Compounds (ug/l)		
Analyte	GW std	Result
benzene	1	<10
bromobenzene	5	<10
bromochloromethane	5	<10
bromomethane	5	<10
sec-butlybenzene	5	<10
n-butylbenzene	5	<10
tert-butylbenzene	5	<10
carbon tetrachloride	5	<10
chlorobenzene	5	<10
chloroethane	5	<10
chloromethane		<10
2-chlorotoluene	5	<10
4-chlorotoluene	5	<10
dibromomethane	5	<10
1,2-dichlorobenzene	3	<10
1,3-dichlorobenzene	3	<10
1,4-dichlorobenzene	3	<10
dichlorodifluoromethane	5	<10
1,1-dichloroethane	5	<10
1,2-dichloroethane	0.6	<10
cis-1,2-dichloroethene	5	**87**
1,1-dichloroethene	5	<10
trans-1,2-dichloroethene	5	<10
1,2-dichloropropane	1	<10
1,3-dichloropropane	5	<10
2,2-dichloropropane	5	<10
1,1-dichloropropene	5	<10
cis-1,3-dichloropropene	*	<10
trans-1,3-dichloropropene	*	<10
ethyl benzene	5	<10
hexachlorobutadiene	0.5	<10
isopropylbenzene (cumene)	5	<10
4-isopropyl toluene (cymene)	5	<10
methylene chloride	5	<10
n-propylbenzene	5	<10
styrene	5	<10
1,1,1,2-tetrachloroethane	5	<10
1,1,2,2-terachloroethane	5	<10
tetrachloroethene	5	<10
toluene	5	<10
1,2,3-trichlorobenzene	5	<10
1,2,4-trichlorobenzene	5	<10
1,1,1-trichloroethane	5	<10

Semi-volatile Organic Compounds (ug/l)		
Analyte	GW std	Result
acenaphthene		<5
acenaphthylene		<5
anthracene	50g	<5
benzo(a)anthracene	.002g	<5
benzo(b)fluoranthene	.002g	<5
benzo(k)fluoranthene	.002g	<5
benzo(ghi)perylene		<5
benzo(a)pyrene	ND	<5
4-bromophenyl-phenylether		<5
butylbenzylphthalate	50g	<5
carbazole		<5
4-chloroaniline	5	<5
bis(2-chloroethoxy)methane	5	<5
bis(2-chloroethyl)ether	1	<5
bis(2-chloroisopropyl)ether		<5
4-chloro-3-methylphenol		<5
2-chloronaphthalene		<5
2-chlorophenol		<5
4-chlorophenyl-phenylether		<5
chrysene	.002g	<5
dibenz(a,h)anthracene		<5
dibenzofuran		<5
di-n-butylphthalate	50	<5
1,2-dichlorobenzene	3	<5
1,3-dichlorobenzene	3	<5
1,4-dichlorobenzene	3	<5
3,3'-dichlorobenzidine	5	<10
2,4-dichlorophenol	5	<5
diethylphthalate	50g	<5
2,4-dimethylphenol	50g	<5
dimethylphthalate	50g	<5
2,4-dinitrophenol	10g	<5
2,4-dinitrotoluene	5	<5
2,6-dinitrotoluene	5	<5
di-n-octylphthalate	50g	<5
bis(2-ethylhexyl)phthalate	5	<5
fluoranthene	50g	<5
fluorene	50g	<5
hexachlorobenzene	0.04	<5
hexachlorocyclopentadiene	5	<5
hexachloroethane	5	<5
ideno(1,2,3-c,d)pyrene	.002g	<5
isophorone	50g	<5

TABLE 5

General Semiconductor, Inc. Site (DHWR site No. 7-09-010)

MW - 8 ANALYTICAL RESULTS

May 2001 Monitoring Event

Volatile Organic Compounds Continued		
Analyte	GW std	Result
1,1,2-trichloroethane	1	<10
trichloroethene	5	**63**
trichlorofluoromethane (freon 11)	5	<10
1,2,3-trichloropropane	0.04	<10
1,2,4-trimethylbenzene	5	<10
1,3,5-trimethylbenzene	5	<10
bromodichloromethane	50g	<10
bromoform	50g	<10
chloroform	7	<10
o-xylene	5	<10
m-xylene	5	<10
p-xylene	5	<10
dibromochloromethane	50g	<10

ND = Non-detect

* = sum of .4ug/l for cis and trans-1,3-dichloropropene

g = Guidance Value

GW std = NYSDEC Groundwater Quality Standards

Semi-volatile Organic Compounds Continued		
Analyte	GW std	Result
2-methyl-4,6-dinitrophenol		<11
2-methylnaphthalene		11
2-methylphenol (o-cresol)		<5
4-methylphenol (p-cresol)		<5
naphthalene		5.8
2-nitroaniline	5	<5
3-nitroaniline	5	<5
4-nitroaniline	5	<10
nitrobenzene	0.4	<5
2-nitrophenol (o-nitrophenol)		<5
4-nitrophenol		<5
n-nitrosodiphenylamine	50g	<5
n-nitroso-di-n-propylamine		<5
pentachlorophenol		<10
phenanthrene	50g	<5
phenol		<5
pyrene	50g	<5
1,2,4-trichlorobenzene	5	<5
2,4,5-trichlorophenol		<5
2,4,6-trichlorophenol		<5

TABLE 6

General Semiconductor Inc. Site (DHWR site No. 7-09-010)

HISTORIC GROUNDWATER ANALYTICAL RESULTS

(TARGET COMPOUND LIST)

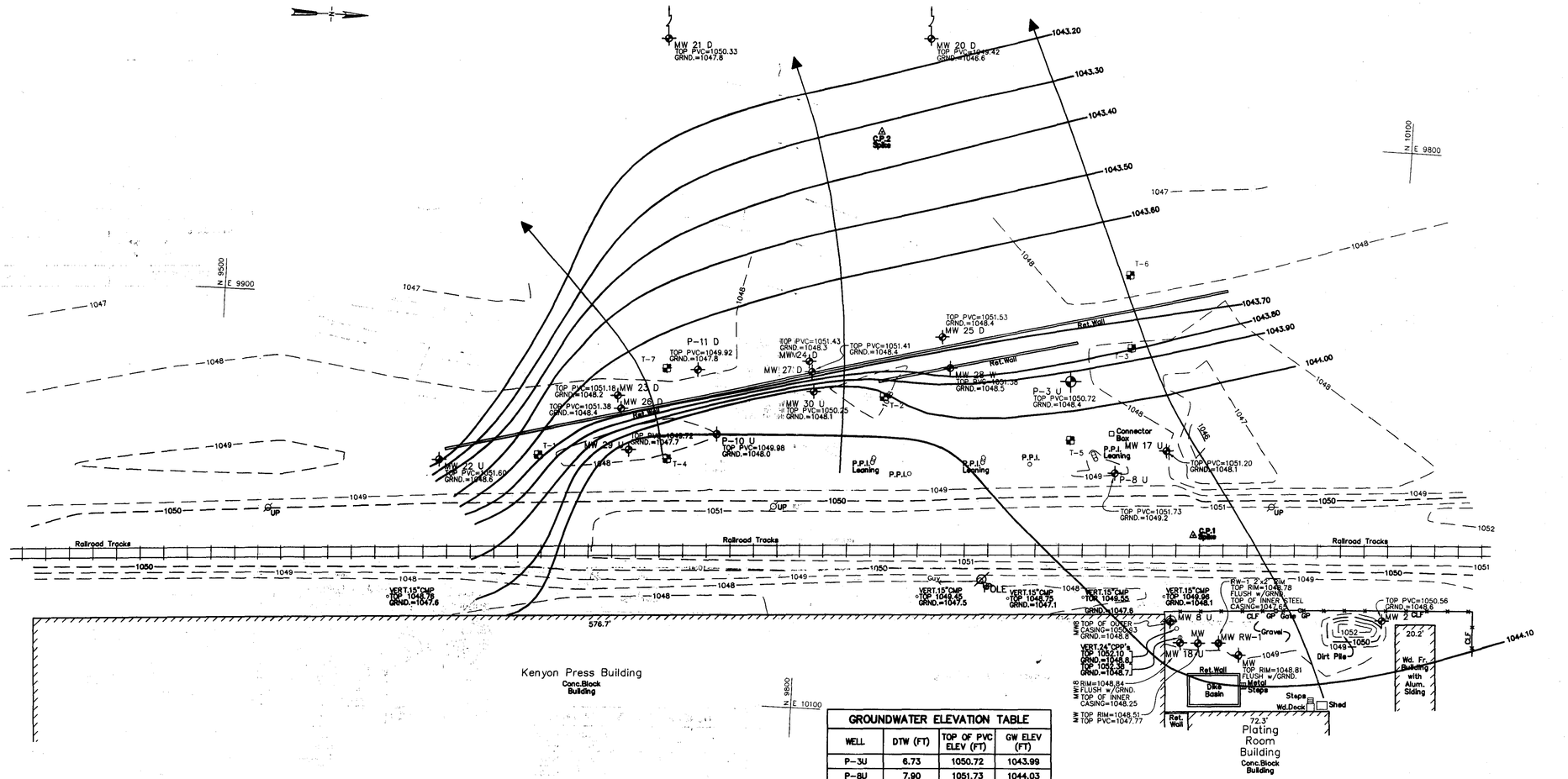
	Sample ID											
Compound (ug/l) 8/99	**P-8U**	**MW-17U**	**MW-20D**	**MW-21D**	**MW-22U**	**MW-23D**	**MW-24D**	**MW-25D**	**MW-29U**	**MW-30U**	**MW-8U**	**MW-18U**
1,2-Dichloroethene (total) 8-99	3,000	1,600	<5	35	220	22	<5	<5	22	18	<20	3,720
Trichloroethene 8-99	1,400	47	17	92	59	7.9	<5	<5	<5	8.1	<20	<20
Vinyl chloride 8-99	210	420	<5	<5	<5	<5	<5	<5	<5	<5	<20	2,500
Total VOCs	4,610	2,067	17	127	279	29.9			22	31.1		6,220
Depth to Water 8/99	9.34	8.8	7.67	9.85	9.23	9.04	9.31	9.37	7.3	7.86	8.42	5.99
Compound (ug/l) 11/99	**P-8U**	**MW-17U**	**MW-20D**	**MW-21D**	**MW-22U**	**MW-23D**	**MW-24D**	**MW-25D**	**MW-29U**	**MW-30U**	**MW-8U**	**MW-18U**
1,2-Dichloroethene (total) 11-99	3,700	1,500	6.7	30	*	28	11	<5	29	8.3		
Trichloroethene 11-99	370	37	12	44	*	<5	<5	<5	<5	5		
Vinyl chloride 11-99	1,100	580	<5	<5	*	<5	<5	<5	<5	<5		
Total VOCs	5170.0	2117.0	18.7	74.0	0.0	28.0	11.0	0.0	29.0	13.3		
Depth to Water 11-99	8.37	7.83	6.67	7.74	*	8.04	8.31	8.37	6.34	6.88		
Compound (ug/l) 2/00	**P-8U**	**MW-17U**	**MW-20D**	**MW-21D**	**MW-22U**	**MW-23D**	**MW-24D**	**MW-25D**	**MW-29U**	**MW-30U**	**MW-8U**	**MW-18U**
1,2-Dichloroethene (total) 2-00	3,500	540	9.3	38	*	13	<5	<5	<5	<5	<5	<5
Trichloroethene 2-00	620	21	14	45	*	<5	<5	<5	<5	5	2.1	5200
Vinyl chloride 2-00	72	<5	<5	<5	*	<5	<5	<5	<5	<5	<5	2,200
Total VOCs	4,192	561	23	83	0	13	0	0	0	5	2	7,400
Depth to Water 2-00	8.37	7.83	6.67	7.74	*	8.04	8.31	8.37	6.34	6.88	7.46	4.43
Compound (ug/l) 5/00	**P-8U**	**MW-17U**	**MW-20D**	**MW-21D**	**P-10***	**MW-23D**	**MW-24D**	**MW-25D**	**MW-29U**	**MW-30U**	**MW-8U**	**MW-18U**
1,2-Dichloroethene (total) 5-00	2800	120	13	90	5.6	<5	<5	<5	<5	9.8		
Trichloroethene 5-00	1100	39	10	88	<5	<5	<5	<5	<5	<5		
Vinyl chloride 5-00	160	82	<5	19	<5	<5	<5	<5	<5	<5		
Total VOCs	4060	241	23	197	5.6	0	0	0	0	9.8		
Depth to Water 5-00	5.75	5.23	4.17	5.36	3.93	5.45	5.75	5.81	3.66	4.25	4.41	4.41
Compound (ug/l) 12/00	**P-8U**	**MW-17U**	**MW-20D**	**MW-21D**	**MW-22U**	**MW-23D**	**MW-24D**	**MW-25D**	**MW-29U**	**MW-30U**	**MW-8U**	**MW-18U***
1,2-Dichloroethene (total) 12-00	2100	550	8.4	78	140	5.4	<5	13	<5	17		-
Trichloroethene 12-00	210	20	12	45	48	<5	<5	<5	<5	8.1	2.4	-
Vinyl chloride 12-00	520	45	<5	<5	<5	<5	<5	10	<5	<5	<1	-
Total VOCs	2830	615	20.4	123	188	5.4	0	23	0	25.1	2.4	-
Depth to Water 12-00	7.42	6.89	5.79	6.95	6.49	4.11	7.41	7.48	5.31	5.92	6.5	-
Compound (ug/l) 5/01	**P-8U**	**MW-17U**	**MW-20D**	**MW-21D**	**MW-22U**	**MW-23D**	**MW-24D**	**MW-25D**	**MW-29U**	**MW-30U**	**MW-8U**	**MW-18U***
1,2-Dichloroethene (total) 5-01	1600	160	26	82	130	6	<5	<10	<5	<5	87	
Trichloroethene 5-01	610	15	9.4	9.4	<5	<5	<5	<10	<5	8.1	63	
Vinyl chloride 5-01	43	23	<5	<5	<5	<5	<5	<10	<5	<5	<10	
Total VOCs	2253	198	35.4	91.4	130	6	<5	<10	<5	8.1	150	
Depth to Water 5-01	7.7	7.17	6.14	7.4	6.81	7.52	7.79	7.85	5.6	6.19	6.9	

Locations with a concentration of 5 ppb are those with the detection limit set at 5 ppb.

Open cells indicate dates where wells are not sampled

* MW-18U has been decomissioned.

FIGURES



GROUNDWATER ELEVATION TABLE			
WELL	DTW (FT)	TOP OF PVC ELEV (FT)	GW ELEV (FT)
P-3U	6.73	1050.72	1043.99
P-8U	7.90	1051.73	1044.03
P-10U	5.88	1049.98	1044.10
P-11D	6.25	1049.92	1043.67
MW-2U	6.50	1050.56	1044.06
MW-8U	6.90	1050.93	1044.03
MW-17U	7.17	1051.20	1044.03
–	–	–	–
MW-20D	6.30	1049.42	1043.12
MW-21D	7.40	1050.33	1042.93
MW-22U	6.81	1049.98	1043.17
MW-23D	7.53	1051.18	1043.66
MW-24D	7.79	1051.43	1043.64
MW-25D	7.85	1051.53	1043.68
MW-26D	7.70	1051.38	1043.68
MW-27D	7.76	1051.41	1043.65
MW-28W	7.65	1051.38	1043.73
MW-29U	5.60	1049.72	1044.12
MW-30U	6.19	1050.25	1044.06

LEGEND	
	BUILDING LINE
102	ONE FOOT INTERVAL GROUND CONTOUR
x413.85	SPOT ELEVATION
C.P. 4	SURVEY CONTROL POINT
CLF	CHAIN LINK FENCE
GP	GATE POST
UP	UTILITY POLE
	GUY WIRE & ANCHOR
MW 1	MONITORING WELL/PIEZOMETER
T-5	PRESSURE TRANSDUCERS
	GROUNDWATER FLOW DIRECTION
P.P.I.	PETROLEUM PRODUCT INTERCEPTION SYSTEM

ABBREVIATIONS	
ALUM.	ALUMINUM
BLK.	BLOCK
CMP	CORRUGATED METAL PIPE
Conc.	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
Fr.	FRAME
GRND.	GROUND
PVC	POLY-VINYL CHLORIDE
Ret.Wall	RETAINING WALL
VERT.	VERTICAL
Wd.	WOOD

NOTES :

1. ELEVATIONS SHOWN ARE BASED ON THE TOP OF PVC CASING AT MONITORING WELL MW 17. Elev. 1051.20
2. HORIZONTAL GRID IS ASSUMED.
3. THE LOCATION OF UNDERGROUND UTILITIES ARE OBTAINED BY FIELD MEASUREMENT WHERE PRACTICABLE, OTHERWISE FROM VARIOUS SOURCES AND ARE APPROXIMATE ONLY. THERE MAY BE OTHERS, THE LOCATIONS OF WHICH ARE UNKNOWN.

NOTE:
MONITORING LOCATION DESIGNATIONS AREA AS FOLLOWS

MW-224 WAS DAMAGED AND NOT ABLE TO OBTAIN WATER LEVEL OR SAMPLE

U = UPGRADIENT
D = DOWNGRADIENT
W = WITHIN WALL

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NOTES:

Underground facilities, structures, and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.

It is a violation of New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	PME	07/01		JLK		
1	FOR APPROVAL CHY SURVEYOR	04/00				

PROJECT SUPERVISOR — DEPARTMENT SUPERVISOR

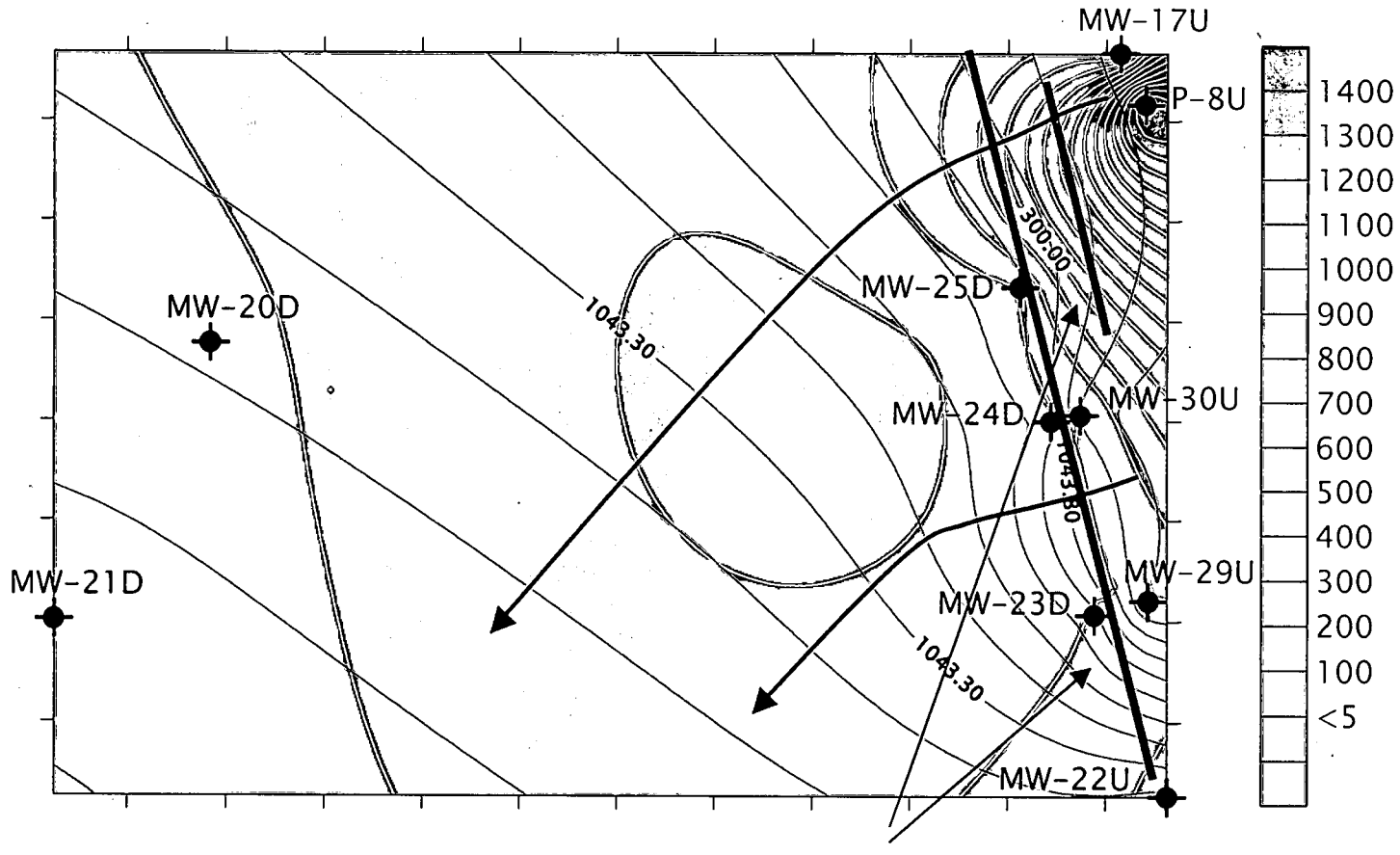
Stearns & Wheler, LLC
ENVIRONMENTAL ENGINEERS & SCIENTISTS
CAZENOVIA, NEW YORK

GENERAL INSTRUMENT CORPORATION
SHEBURNE, NEW YORK
GROUNDWATER CONTOURS
PERMEABLE REACTION WALL
MAY, 2001

JOB NO. 60007FA | CONTRACT 1 | SHEET FIGURE 1

01/26 CAZ PNE
M:\60007FA\FIG\60007fa_MAY_F01.DWG

M:\60007FA\FIG\60007fa_MAY_F01.dwg Mon Jul 30 15:51:15 2001 Plotted from



Distance Scale

0’ 100’

Approximate Location of
In Situ Treatment System

1,2-DCE Concentrations(ppb)

N

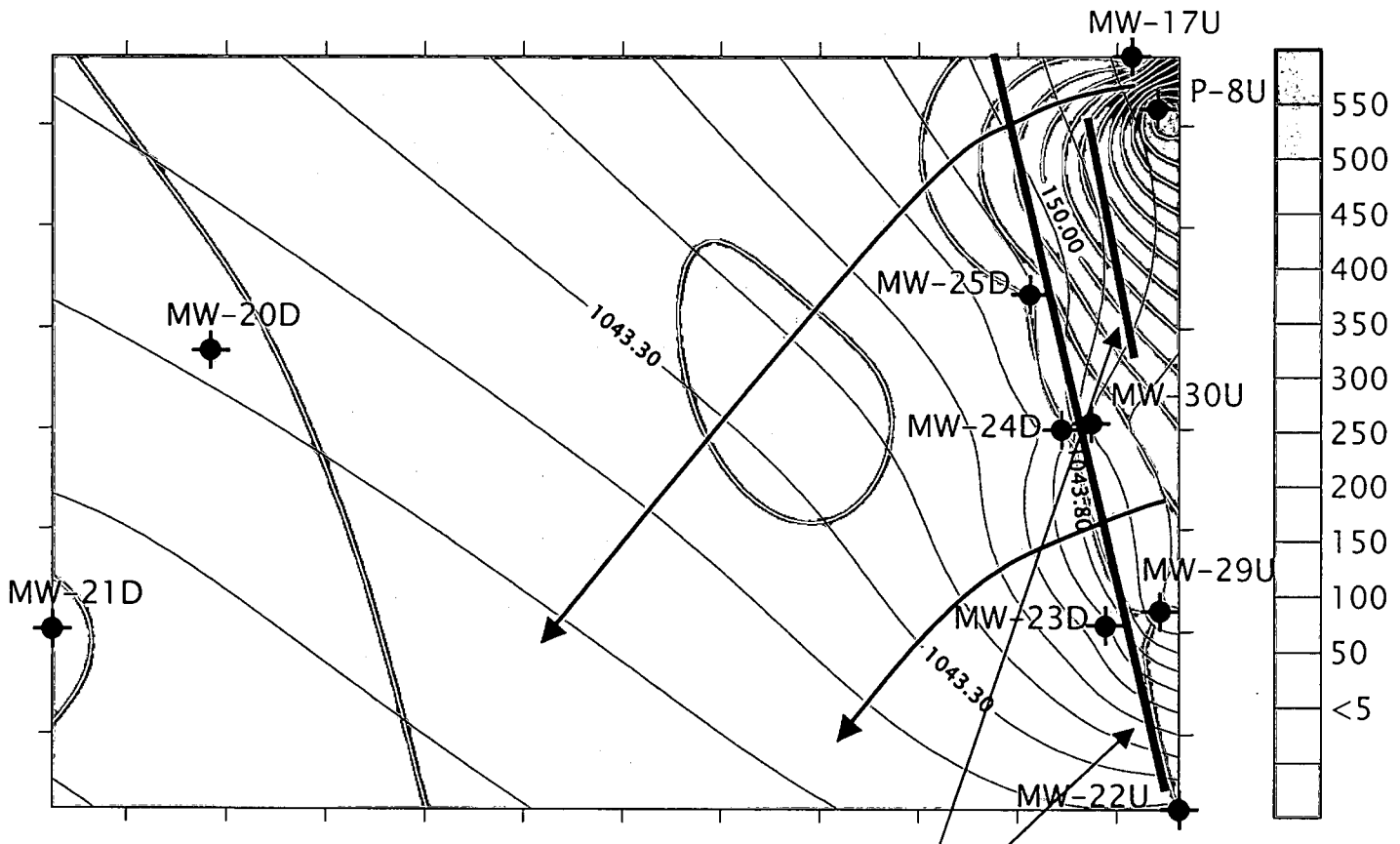
Stearns & Wheler, LLC
ENVIRONMENTAL ENGINEERS & SCIENTISTS
CAZENOVIA, NEW YORK

7/2001 JOB No: 60007FA

GENERAL SEMICONDUCTOR, INC.
SHERBURNE, NY

FIGURE 2

DCE Isopleths – May 2001 Monitoring Event



Distance Scale

0' 100'

Approximate Location of in situ Treatment System

TCE Concentrations(ppb)

N

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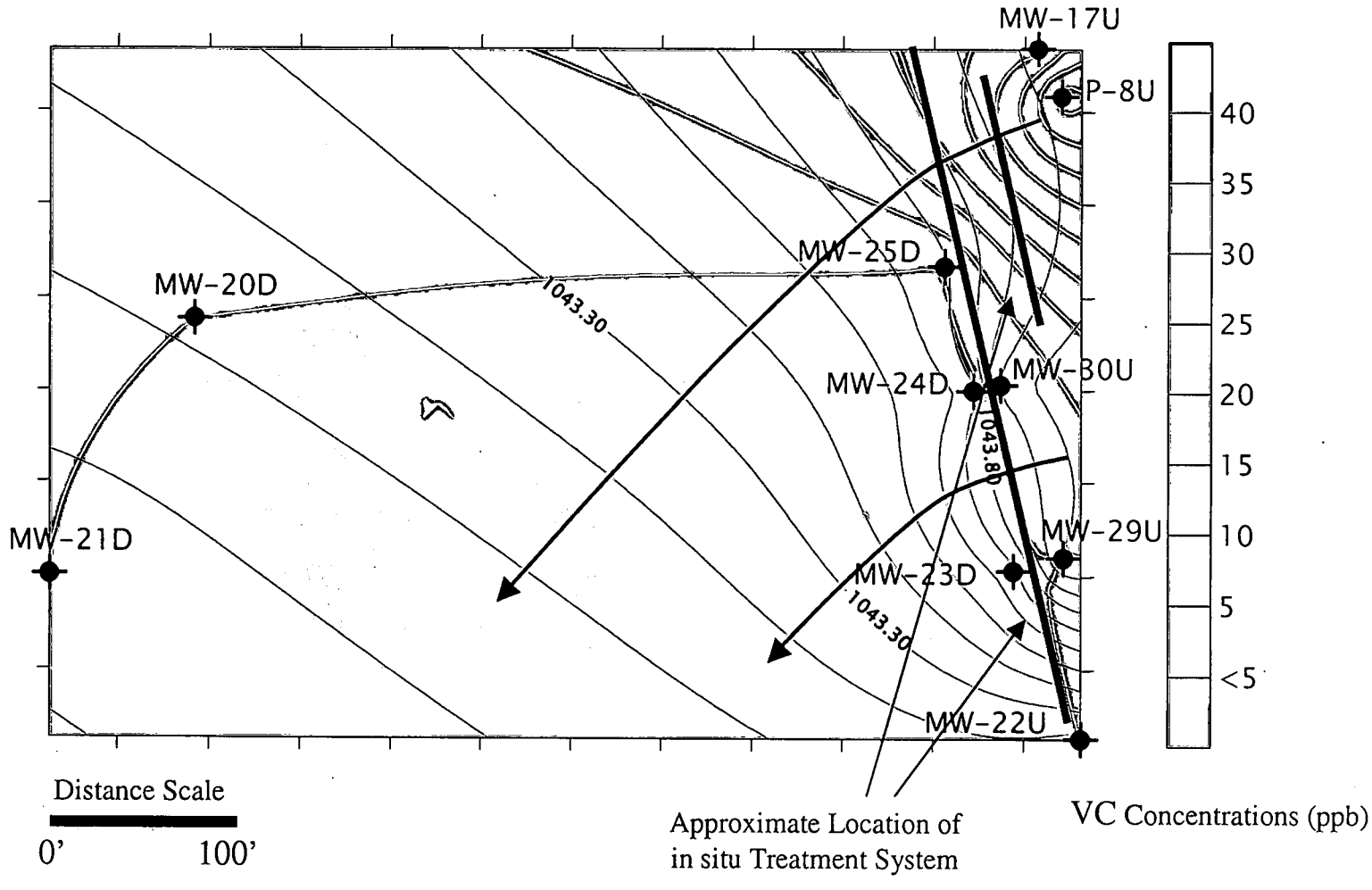
CAZENOVIA, NEW YORK

7/2001 JOB No: 60007FA

GENERAL SEMICONDUCTOR, INC.
SHERBURNE, NY

FIGURE 3

TCE Isopleths – May 2001 Monitoring Event



Stearns & Wheler, LLC
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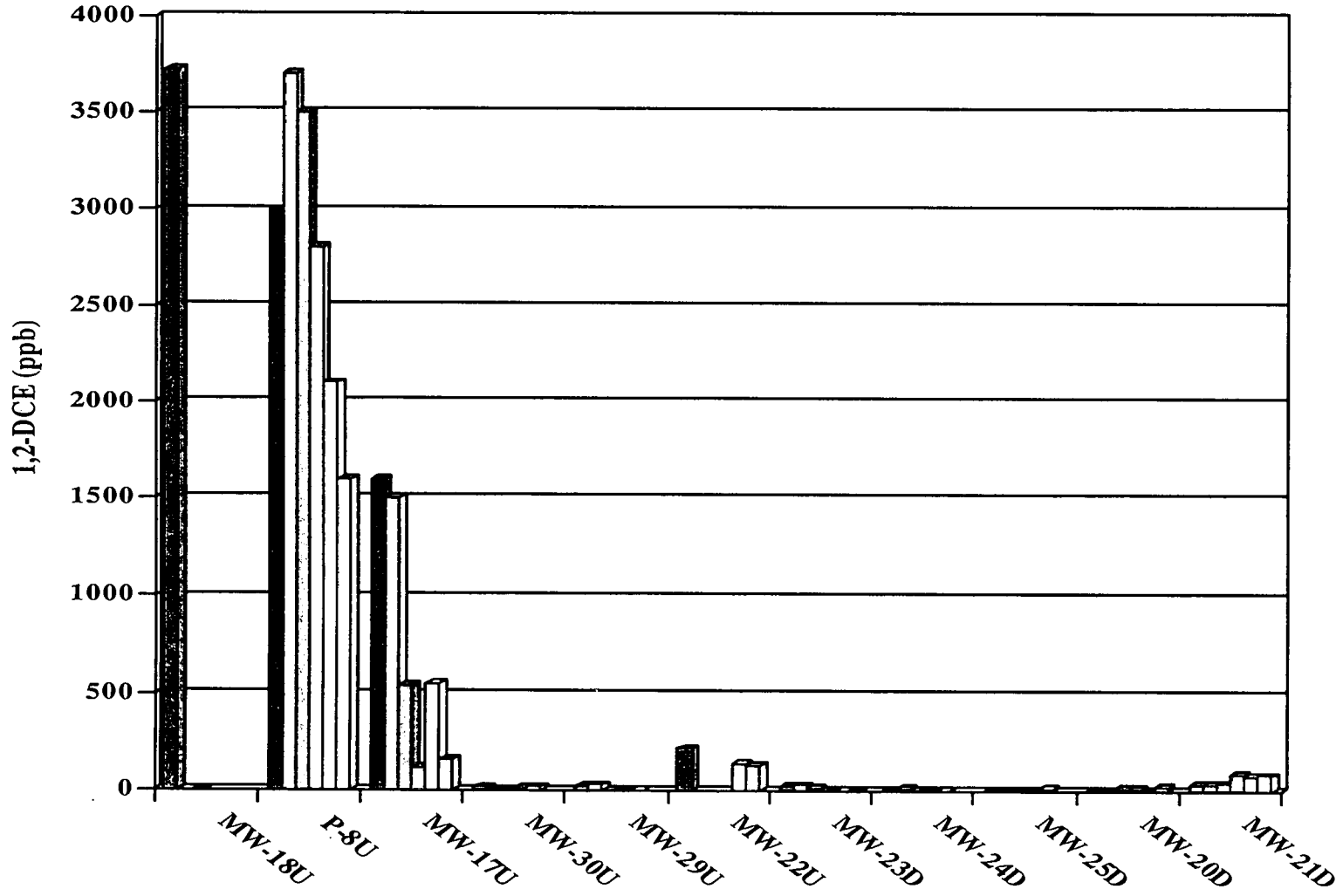
CAZENOVIA, NEW YORK

7/2001 JOB No: 60007FA

GENERAL SEMICONDUCTOR, INC.
SHERBURNE,NY

FIGURE 4

VC Isopleths – May 2001 Monitoring Event



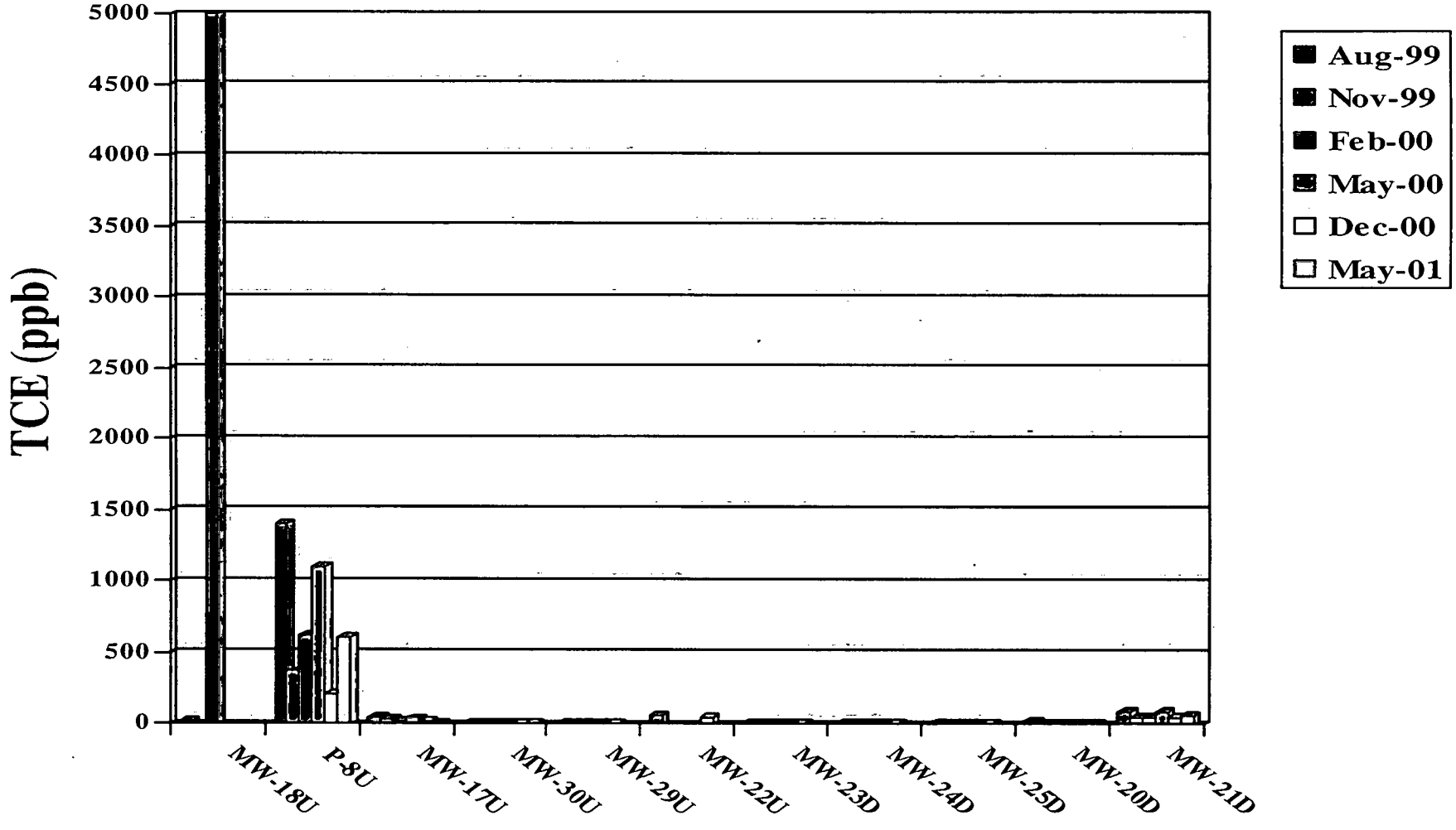
Stearns & Wheler, LLC
ENVIRONMENTAL ENGINEERS & SCIENTISTS

CAZENOVIA, NEW YORK

DATE: 7/01 JOB No.: 60007FA

GENERAL SEMICONDUCTOR, INC
SHERBURNE, NY

FIGURE 5
Historic 1,2-DCE Concentration Trends



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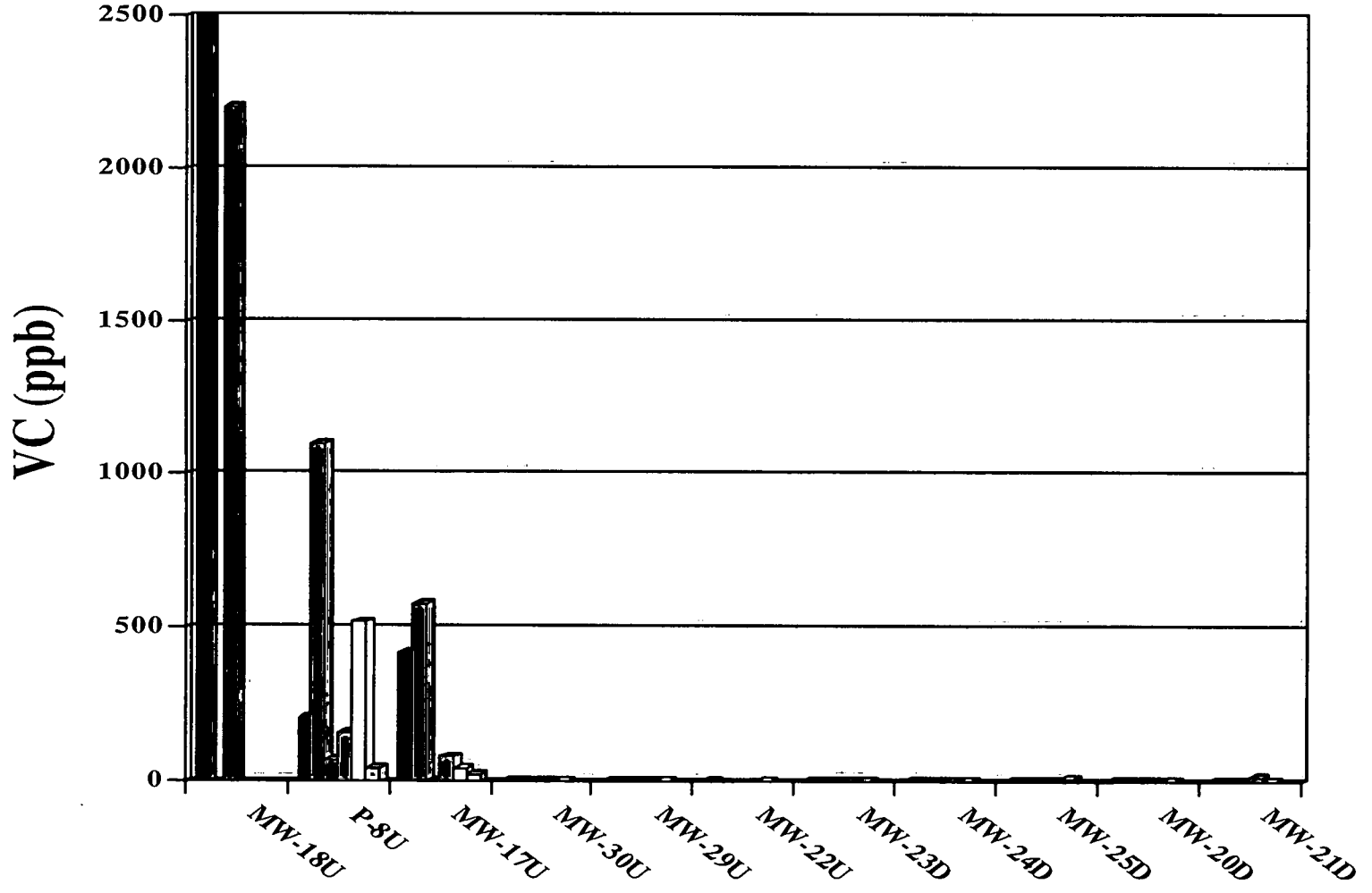
CAZENOVIA, NEW YORK

DATE: 7/01 JOB No.: 60007FA

GENERAL SEMICONDUCTOR, INC
SHERBURNE, NY

FIGURE 6
Historic TCE Concentration Trends



Stearns & Wheler, LLC
ENVIRONMENTAL ENGINEERS & SCIENTISTS

CAZENOVIA, NEW YORK

DATE: 7/01 JOB No.: 60007FA

GENERAL SEMICONDUCTOR, INC
SHERBURNE, NY

FIGURE 7
Historic VC Concentration Trends

LABORATORY REPORTS

LSL

Jeff Kiggins
Stearns & Wheler Engineering
1 Remington Park Drive
Cazenovia, NY 13035

Phone: (315) 655-8161
FAX: (315) 655-4180

Laboratory Analysis Report
For
Stearns & Wheler Engineering

Project Number: R60007.10.1700

LSL Project Number: 0105854

Life Science Laboratories, Inc.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1105
Fax (315) 445-1301
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

This report was reviewed by: Diane Deganico QC *Date:* 6-19-01

Life Science Laboratories, Inc.

-- LABORATORY ANALYSIS REPORT --

Stearns & Wheler Engineering

Jeff Kiggins
Phone Number: (315) 655-8161

Project No.: R60007.10.1700
LSL Project No.: 0105854
Authorization:
Report Date: 6/13/01

Sample ID: MW 30

Source: GSI Sherburne
LSL Sample ID: 0105854-001
Sample Matrix: NPW
Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Iron	0.10	mg/l	6/1/01
Calcium	78	mg/l	6/1/01
Magnesium	12	mg/l	6/1/01
Sodium	20	mg/l	6/1/01
Potassium	1.8	mg/l	6/1/01
(1) EPA 8260B TCL Volatiles			
Acetone	<10	ug/l	6/9/01
Benzene	<5	ug/l	6/9/01
Bromodichloromethane	<5	ug/l	6/9/01
Bromoform	<5	ug/l	6/9/01
Bromomethane	<5	ug/l	6/9/01
2-Butanone (MEK)	<10	ug/l	6/9/01
Carbon disulfide	<5	ug/l	6/9/01
Carbon tetrachloride	<5	ug/l	6/9/01
Chlorobenzene	<5	ug/l	6/9/01
Chloroethane	<5	ug/l	6/9/01
Chloroform	<5	ug/l	6/9/01
Chloromethane	<5	ug/l	6/9/01
Dibromochloromethane	<5	ug/l	6/9/01
1,1-Dichloroethane	<5	ug/l	6/9/01
1,2-Dichloroethane	<5	ug/l	6/9/01
1,1-Dichloroethene	<5	ug/l	6/9/01
1,2-Dichloroethene, Total	<5	ug/l	6/9/01
1,2-Dichloropropane	<5	ug/l	6/9/01
cis-1,3-Dichloropropene	<5	ug/l	6/9/01
trans-1,3-Dichloropropene	<5	ug/l	6/9/01
Ethyl benzene	<5	ug/l	6/9/01
2-Hexanone	<10	ug/l	6/9/01
Methylene chloride	<10	ug/l	6/9/01
4-Methyl-2-pentanone (MIBK)	<10	ug/l	6/9/01
Styrene	<5	ug/l	6/9/01
1,1,2,2-Tetrachloroethane	<5	ug/l	6/9/01
Tetrachloroethene	<5	ug/l	6/9/01
Toluene	<5	ug/l	6/9/01

-- LABORATORY ANALYSIS REPORT --

Stearns & Wheler Engineering

Jeff Kiggins

Phone Number: (315) 655-8161

Project No.: R60007.10.1700

LSL Project No.: 0105854

Authorization:

Report Date: 6/13/01

1,1,1-Trichloroethane	<5	ug/l	6/9/01
1,1,2-Trichloroethane	<5	ug/l	6/9/01
Trichloroethene	<5	ug/l	6/9/01
Vinyl chloride	<5	ug/l	6/9/01
Xylenes (Total)	<5	ug/l	6/9/01
Surrogate (4-BFB)	90	%R	6/9/01
Surrogate (Tol-d8)	101	%R	6/9/01
Surrogate (1,2-DCA-d4)	110	%R	6/9/01
MTBE	<5	ug/l	6/9/01
Naphthalene	<5	ug/l	6/9/01
(1) EPA Method 300.0 A			
Chloride	26	mg/l	6/4/01
Sulfate	14	mg/l	6/4/01
(1) SM 18 2320B, Alkalinity as CaCO3			
Alkalinity	230	mg/l	6/4/01

Sample ID: P 8

Source: GSI Sherburne

LSL Sample ID: 0105854-002

Sample Matrix: NPW

Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Iron	0.57	mg/l	6/1/01
Calcium	100	mg/l	6/1/01
Magnesium	16	mg/l	6/1/01
Sodium	27	mg/l	6/1/01
Potassium	1.7	mg/l	6/1/01
(1) EPA 8260B TCL Volatiles			
Acetone	<10	ug/l	6/9/01
Benzene	<5	ug/l	6/9/01
Bromodichloromethane	<5	ug/l	6/9/01
Bromoform	<5	ug/l	6/9/01
Bromomethane	<5	ug/l	6/9/01
2-Butanone (MEK)	<10	ug/l	6/9/01
Carbon disulfide	<5	ug/l	6/9/01
Carbon tetrachloride	<5	ug/l	6/9/01
Chlorobenzene	<5	ug/l	6/9/01
Chloroethane	<5	ug/l	6/9/01
Chloroform	<5	ug/l	6/9/01
Chloromethane	<5	ug/l	6/9/01
Dibromochloromethane	<5	ug/l	6/9/01

-- LABORATORY ANALYSIS REPORT --

Stearns & Wheler Engineering

Jeff Kiggins

Phone Number: (315) 655-8161

Project No.: R60007.10.1700

LSL Project No.: 0105854

Authorization:

Report Date: 6/13/01

1,1-Dichloroethane	<5	ug/l	6/9/01
1,2-Dichloroethane	<5	ug/l	6/9/01
1,1-Dichloroethene	<5	ug/l	6/9/01
1,2-Dichloroethene, Total	1600	ug/l	6/9/01
1,2-Dichloropropane	<5	ug/l	6/9/01
cis-1,3-Dichloropropene	<5	ug/l	6/9/01
trans-1,3-Dichloropropene	<5	ug/l	6/9/01
Ethyl benzene	<5	ug/l	6/9/01
2-Hexanone	<10	ug/l	6/9/01
Methylene chloride	<10	ug/l	6/9/01
4-Methyl-2-pentanone (MIBK)	<10	ug/l	6/9/01
Styrene	<5	ug/l	6/9/01
1,1,2,2-Tetrachloroethane	<5	ug/l	6/9/01
Tetrachloroethene	<5	ug/l	6/9/01
Toluene	<5	ug/l	6/9/01
1,1,1-Trichloroethane	<5	ug/l	6/9/01
1,1,2-Trichloroethane	<5	ug/l	6/9/01
Trichloroethene	610	ug/l	6/9/01
Vinyl chloride	43	ug/l	6/9/01
Xylenes (Total)	<5	ug/l	6/9/01
Surrogate (4-BFB)	94	%R	6/9/01
Surrogate (Tol-d8)	100	%R	6/9/01
Surrogate (1,2-DCA-d4)	108	%R	6/9/01
MTBE	<5	ug/l	6/9/01
Naphthalene	<5	ug/l	6/9/01
(1) EPA Method 300.0 A			
Chloride	46	mg/l	6/4/01
Sulfate	12	mg/l	6/4/01
(1) SM 18 2320B, Alkalinity as CaCO3			
Alkalinity	300	mg/l	6/4/01

Sample ID: MW 25

Source: GSI Sherburne

LSL Sample ID: 0105854-003

Sample Matrix: NPW

Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Iron	0.95	mg/l	6/1/01
Calcium	23	mg/l	6/1/01
Magnesium	5.1	mg/l	6/1/01
Sodium	20	mg/l	6/1/01

-- LABORATORY ANALYSIS REPORT --

	Potassium	<1 mg/l	6/1/01
(1)	EPA 8260B TCL Volatiles		
	Acetone	<20 ug/l	6/9/01
	Benzene	<10 ug/l	6/9/01
	Bromodichloromethane	<10 ug/l	6/9/01
	Bromoform	<10 ug/l	6/9/01
	Bromomethane	<10 ug/l	6/9/01
	2-Butanone (MEK)	<20 ug/l	6/9/01
	Carbon disulfide	<10 ug/l	6/9/01
	Carbon tetrachloride	<10 ug/l	6/9/01
	Chlorobenzene	<10 ug/l	6/9/01
	Chloroethane	<10 ug/l	6/9/01
	Chloroform	<10 ug/l	6/9/01
	Chloromethane	<10 ug/l	6/9/01
	Dibromochloromethane	<10 ug/l	6/9/01
	1,1-Dichloroethane	<10 ug/l	6/9/01
	1,2-Dichloroethane	<10 ug/l	6/9/01
	1,1-Dichloroethene	<10 ug/l	6/9/01
	1,2-Dichloroethene, Total	<10 ug/l	6/9/01
	1,2-Dichloropropane	<10 ug/l	6/9/01
	cis-1,3-Dichloropropene	<10 ug/l	6/9/01
	trans-1,3-Dichloropropene	<10 ug/l	6/9/01
	Ethyl benzene	19 ug/l	6/9/01
	2-Hexanone	<20 ug/l	6/9/01
	Methylene chloride	<20 ug/l	6/9/01
	4-Methyl-2-pentanone (MIBK)	<20 ug/l	6/9/01
	Styrene	<10 ug/l	6/9/01
	1,1,2,2-Tetrachloroethane	<10 ug/l	6/9/01
	Tetrachloroethene	<10 ug/l	6/9/01
	Toluene	<10 ug/l	6/9/01
	1,1,1-Trichloroethane	<10 ug/l	6/9/01
	1,1,2-Trichloroethane	<10 ug/l	6/9/01
	Trichloroethene	<10 ug/l	6/9/01
	Vinyl chloride	<10 ug/l	6/9/01
	Xylenes (Total)	26 ug/l	6/9/01
	Surrogate (4-BFB)	90 %R	6/9/01
	Surrogate (Tol-d8)	100 %R	6/9/01
	Surrogate (1,2-DCA-d4)	113 %R	6/9/01
	MTBE	<10 ug/l	6/9/01

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(¥) **Naphthalene**	<10	ug/l	6/9/01

(¥) Elevated detection limits due to the presence of a petroleum hydrocarbon pattern in the sample.

(1) EPA Method 300.0 A			
Chloride	30	mg/l	6/4/01
Sulfate	2.7	mg/l	6/4/01
(1) SM 18 2320B, Alkalinity as CaCO3			
Alkalinity	78	mg/l	6/4/01

Sample ID: MW 24

Source: GSI Sherburne
LSL Sample ID: 0105854-004
Sample Matrix: NPW
Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Iron	28	mg/l	6/1/01
Calcium	120	mg/l	6/1/01
Magnesium	34	mg/l	6/1/01
Sodium	14	mg/l	6/1/01
Potassium	2.6	mg/l	6/1/01
(1) EPA 8260B TCL Volatiles			
Acetone	<10	ug/l	6/9/01
Benzene	<5	ug/l	6/9/01
Bromodichloromethane	<5	ug/l	6/9/01
Bromoform	<5	ug/l	6/9/01
Bromomethane	<5	ug/l	6/9/01
2-Butanone (MEK)	<10	ug/l	6/9/01
Carbon disulfide	<5	ug/l	6/9/01
Carbon tetrachloride	<5	ug/l	6/9/01
Chlorobenzene	<5	ug/l	6/9/01
Chloroethane	<5	ug/l	6/9/01
Chloroform	<5	ug/l	6/9/01
Chloromethane	<5	ug/l	6/9/01
Dibromochloromethane	<5	ug/l	6/9/01
1,1-Dichloroethane	<5	ug/l	6/9/01
1,2-Dichloroethane	<5	ug/l	6/9/01
1,1-Dichloroethene	<5	ug/l	6/9/01
1,2-Dichloroethene, Total	<5	ug/l	6/9/01
1,2-Dichloropropane	<5	ug/l	6/9/01
cis-1,3-Dichloropropene	<5	ug/l	6/9/01
trans-1,3-Dichloropropene	<5	ug/l	6/9/01
Ethyl benzene	<5	ug/l	6/9/01

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	2-Hexanone	<10 ug/l	6/9/01
	Methylene chloride	<10 ug/l	6/9/01
	4-Methyl-2-pentanone (MIBK)	<10 ug/l	6/9/01
	Styrene	<5 ug/l	6/9/01
	1,1,2,2-Tetrachloroethane	<5 ug/l	6/9/01
	Tetrachloroethene	<5 ug/l	6/9/01
	Toluene	<5 ug/l	6/9/01
	1,1,1-Trichloroethane	<5 ug/l	6/9/01
	1,1,2-Trichloroethane	<5 ug/l	6/9/01
	Trichloroethene	<5 ug/l	6/9/01
	Vinyl chloride	<5 ug/l	6/9/01
	Xylenes (Total)	<5 ug/l	6/9/01
	Surrogate (4-BFB)	93 %R	6/9/01
	Surrogate (Tol-d8)	103 %R	6/9/01
	Surrogate (1,2-DCA-d4)	108 %R	6/9/01
	MTBE	<5 ug/l	6/9/01
	Naphthalene	<5 ug/l	6/9/01
(1)	EPA Method 300.0 A		
	Chloride	12 mg/l	6/4/01
	Sulfate	20 mg/l	6/4/01
(1)	SM 18 2320B, Alkalinity as CaCO3		
	Alkalinity	120 mg/l	6/4/01

Sample ID: MW 23

Source: GSI Sherburne
LSL Sample ID: 0105854-005

Sample Matrix: NPW
Date Sampled: 5/30/2001

Parameter(s)		*Results Units*	*Analysis Date and Time*
(1)	EPA 200.7 Total Metals		
	Iron	1.3 mg/l	6/1/01
	Calcium	71 mg/l	6/1/01
	Magnesium	11 mg/l	6/1/01
	Sodium	20 mg/l	6/1/01
	Potassium	6.2 mg/l	6/1/01
(1)	EPA 8260B TCL Volatiles		
	Acetone	<10 ug/l	6/9/01
	Benzene	<5 ug/l	6/9/01
	Bromodichloromethane	<5 ug/l	6/9/01
	Bromoform	<5 ug/l	6/9/01
	Bromomethane	<5 ug/l	6/9/01
	2-Butanone (MEK)	<10 ug/l	6/9/01

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	Carbon disulfide	<5 ug/l	6/9/01
	Carbon tetrachloride	<5 ug/l	6/9/01
	Chlorobenzene	<5 ug/l	6/9/01
	Chloroethane	<5 ug/l	6/9/01
	Chloroform	<5 ug/l	6/9/01
	Chloromethane	<5 ug/l	6/9/01
	Dibromochloromethane	<5 ug/l	6/9/01
	1,1-Dichloroethane	<5 ug/l	6/9/01
	1,2-Dichloroethane	<5 ug/l	6/9/01
	1,1-Dichloroethene	<5 ug/l	6/9/01
	1,2-Dichloroethene, Total	6.0 ug/l	6/9/01
	1,2-Dichloropropane	<5 ug/l	6/9/01
	cis-1,3-Dichloropropene	<5 ug/l	6/9/01
	trans-1,3-Dichloropropene	<5 ug/l	6/9/01
	Ethyl benzene	<5 ug/l	6/9/01
	2-Hexanone	<10 ug/l	6/9/01
	Methylene chloride	<10 ug/l	6/9/01
	4-Methyl-2-pentanone (MIBK)	<10 ug/l	6/9/01
	Styrene	<5 ug/l	6/9/01
	1,1,2,2-Tetrachloroethane	<5 ug/l	6/9/01
	Tetrachloroethene	<5 ug/l	6/9/01
	Toluene	<5 ug/l	6/9/01
	1,1,1-Trichloroethane	<5 ug/l	6/9/01
	1,1,2-Trichloroethane	<5 ug/l	6/9/01
	Trichloroethene	<5 ug/l	6/9/01
	Vinyl chloride	<5 ug/l	6/9/01
	Xylenes (Total)	<5 ug/l	6/9/01
	Surrogate (4-BFB)	91 %R	6/9/01
	Surrogate (Tol-d8)	101 %R	6/9/01
	Surrogate (1,2-DCA-d4)	110 %R	6/9/01
	MTBE	<5 ug/l	6/9/01
	Naphthalene	<5 ug/l	6/9/01
(1)	EPA Method 300.0 A		
	Chloride	28 mg/l	6/4/01
	Sulfate	16 mg/l	6/4/01
(1)	SM 18 2320B, Alkalinity as CaCO3		
	Alkalinity	200 mg/l	6/4/01

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Project No.: R60007.10.1700
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Authorization:
Report Date: 6/13/01

Sample ID: MW 29

Source: GSI Sherburne
LSL Sample ID: 0105854-006
Sample Matrix: NPW
Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Iron	<0.05	mg/l	6/1/01
Calcium	42	mg/l	6/1/01
Magnesium	5.6	mg/l	6/1/01
Sodium	5.2	mg/l	6/1/01
Potassium	1.3	mg/l	6/1/01
(1) EPA 8260B TCL Volatiles			
Acetone	<10	ug/l	6/9/01
Benzene	<5	ug/l	6/9/01
Bromodichloromethane	<5	ug/l	6/9/01
Bromoform	<5	ug/l	6/9/01
Bromomethane	<5	ug/l	6/9/01
2-Butanone (MEK)	<10	ug/l	6/9/01
Carbon disulfide	<5	ug/l	6/9/01
Carbon tetrachloride	<5	ug/l	6/9/01
Chlorobenzene	<5	ug/l	6/9/01
Chloroethane	<5	ug/l	6/9/01
Chloroform	<5	ug/l	6/9/01
Chloromethane	<5	ug/l	6/9/01
Dibromochloromethane	<5	ug/l	6/9/01
1,1-Dichloroethane	<5	ug/l	6/9/01
1,2-Dichloroethane	<5	ug/l	6/9/01
1,1-Dichloroethene	<5	ug/l	6/9/01
1,2-Dichloroethene, Total	<5	ug/l	6/9/01
1,2-Dichloropropane	<5	ug/l	6/9/01
cis-1,3-Dichloropropene	<5	ug/l	6/9/01
trans-1,3-Dichloropropene	<5	ug/l	6/9/01
Ethyl benzene	<5	ug/l	6/9/01
2-Hexanone	<10	ug/l	6/9/01
Methylene chloride	<10	ug/l	6/9/01
4-Methyl-2-pentanone (MIBK)	<10	ug/l	6/9/01
Styrene	<5	ug/l	6/9/01
1,1,2,2-Tetrachloroethane	<5	ug/l	6/9/01
Tetrachloroethene	<5	ug/l	6/9/01
Toluene	<5	ug/l	6/9/01

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	1,1,1-Trichloroethane	<5 ug/l	6/9/01
	1,1,2-Trichloroethane	<5 ug/l	6/9/01
	Trichloroethene	<5 ug/l	6/9/01
	Vinyl chloride	<5 ug/l	6/9/01
	Xylenes (Total)	<5 ug/l	6/9/01
	Surrogate (4-BFB)	93 %R	6/9/01
	Surrogate (Tol-d8)	100 %R	6/9/01
	Surrogate (1,2-DCA-d4)	113 %R	6/9/01
	MTBE	<5 ug/l	6/9/01
	Naphthalene	<5 ug/l	6/9/01
(1)	EPA Method 300.0 A		
	Chloride	6.6 mg/l	6/4/01
	Sulfate	17 mg/l	6/4/01
(1)	SM 18 2320B, Alkalinity as CaCO3		
	Alkalinity	110 mg/l	6/4/01

Sample ID: MW 22

Source: GSI Sherburne

LSL Sample ID: 0105854-007

Sample Matrix: NPW

Date Sampled: 5/30/2001

Parameter(s)		*Results*	*Units*	*Analysis Date and Time*
(1)	EPA 200.7 Total Metals			
	Iron	3.8	mg/l	6/1/01
	Calcium	90	mg/l	6/1/01
	Magnesium	15	mg/l	6/1/01
	Sodium	25	mg/l	6/1/01
	Potassium	5.2	mg/l	6/1/01
(1)	EPA 8260B TCL Volatiles			
	Acetone	<10	ug/l	6/9/01
	Benzene	<5	ug/l	6/9/01
	Bromodichloromethane	<5	ug/l	6/9/01
	Bromoform	<5	ug/l	6/9/01
	Bromomethane	<5	ug/l	6/9/01
	2-Butanone (MEK)	<10	ug/l	6/9/01
	Carbon disulfide	<5	ug/l	6/9/01
	Carbon tetrachloride	<5	ug/l	6/9/01
	Chlorobenzene	<5	ug/l	6/9/01
	Chloroethane	<5	ug/l	6/9/01
	Chloroform	<5	ug/l	6/9/01
	Chloromethane	<5	ug/l	6/9/01
	Dibromochloromethane	<5	ug/l	6/9/01

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	1,1-Dichloroethane	<5 ug/l	6/9/01
	1,2-Dichloroethane	<5 ug/l	6/9/01
	1,1-Dichloroethene	<5 ug/l	6/9/01
	1,2-Dichloroethene, Total	130 ug/l	6/9/01
	1,2-Dichloropropane	<5 ug/l	6/9/01
	cis-1,3-Dichloropropene	<5 ug/l	6/9/01
	trans-1,3-Dichloropropene	<5 ug/l	6/9/01
	Ethyl benzene	<5 ug/l	6/9/01
	2-Hexanone	<10 ug/l	6/9/01
	Methylene chloride	<10 ug/l	6/9/01
	4-Methyl-2-pentanone (MIBK)	<10 ug/l	6/9/01
	Styrene	<5 ug/l	6/9/01
	1,1,2,2-Tetrachloroethane	<5 ug/l	6/9/01
	Tetrachloroethene	<5 ug/l	6/9/01
	Toluene	<5 ug/l	6/9/01
	1,1,1-Trichloroethane	<5 ug/l	6/9/01
	1,1,2-Trichloroethane	<5 ug/l	6/9/01
	Trichloroethene	39 ug/l	6/9/01
	Vinyl chloride	<5 ug/l	6/9/01
	Xylenes (Total)	<5 ug/l	6/9/01
	Surrogate (4-BFB)	91 %R	6/9/01
	Surrogate (Tol-d8)	100 %R	6/9/01
	Surrogate (1,2-DCA-d4)	112 %R	6/9/01
	MTBE	<5 ug/l	6/9/01
	Naphthalene	<5 ug/l	6/9/01
(1)	EPA Method 300.0 A		
	Chloride	40 mg/l	6/4/01
	Sulfate	18 mg/l	6/4/01
(1)	SM 18 2320B, Alkalinity as CaCO3		
	Alkalinity	240 mg/l	6/4/01

Sample ID: MW 20

Source: GSI Sherburne

LSL Sample ID: 0105854-008

Sample Matrix: NPW

Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 8260B TCL Volatiles			
Acetone	<10	ug/l	6/9/01
Benzene	<5	ug/l	6/9/01
Bromodichloromethane	<5	ug/l	6/9/01
Bromoform	<5	ug/l	6/9/01

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Bromomethane	<5	ug/l	6/9/01
2-Butanone (MEK)	<10	ug/l	6/9/01
Carbon disulfide	<5	ug/l	6/9/01
Carbon tetrachloride	<5	ug/l	6/9/01
Chlorobenzene	<5	ug/l	6/9/01
Chloroethane	<5	ug/l	6/9/01
Chloroform	<5	ug/l	6/9/01
Chloromethane	<5	ug/l	6/9/01
Dibromochloromethane	<5	ug/l	6/9/01
1,1-Dichloroethane	<5	ug/l	6/9/01
1,2-Dichloroethane	<5	ug/l	6/9/01
1,1-Dichloroethene	<5	ug/l	6/9/01
1,2-Dichloroethene, Total	26	ug/l	6/9/01
1,2-Dichloropropane	<5	ug/l	6/9/01
cis-1,3-Dichloropropene	<5	ug/l	6/9/01
trans-1,3-Dichloropropene	<5	ug/l	6/9/01
Ethyl benzene	<5	ug/l	6/9/01
2-Hexanone	<10	ug/l	6/9/01
Methylene chloride	<10	ug/l	6/9/01
4-Methyl-2-pentanone (MIBK)	<10	ug/l	6/9/01
Styrene	<5	ug/l	6/9/01
1,1,2,2-Tetrachloroethane	<5	ug/l	6/9/01
Tetrachloroethene	<5	ug/l	6/9/01
Toluene	<5	ug/l	6/9/01
1,1,1-Trichloroethane	<5	ug/l	6/9/01
1,1,2-Trichloroethane	<5	ug/l	6/9/01
Trichloroethene	9.4	ug/l	6/9/01
Vinyl chloride	<5	ug/l	6/9/01
Xylenes (Total)	<5	ug/l	6/9/01
Surrogate (4-BFB)	93	%R	6/9/01
Surrogate (Tol-d8)	100	%R	6/9/01
Surrogate (1,2-DCA-d4)	108	%R	6/9/01
MTBE	<5	ug/l	6/9/01
Naphthalene	<5	ug/l	6/9/01

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Sample ID: MW 21

Source: GSI Sherburne

LSL Sample ID: 0105854-009

Sample Matrix: NPW

Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 8260B TCL Volatiles			
Acetone	<10	ug/l	6/9/01
Benzene	<5	ug/l	6/9/01
Bromodichloromethane	<5	ug/l	6/9/01
Bromoform	<5	ug/l	6/9/01
Bromomethane	<5	ug/l	6/9/01
2-Butanone (MEK)	<10	ug/l	6/9/01
Carbon disulfide	<5	ug/l	6/9/01
Carbon tetrachloride	<5	ug/l	6/9/01
Chlorobenzene	<5	ug/l	6/9/01
Chloroethane	<5	ug/l	6/9/01
Chloroform	<5	ug/l	6/9/01
Chloromethane	<5	ug/l	6/9/01
Dibromochloromethane	<5	ug/l	6/9/01
1,1-Dichloroethane	<5	ug/l	6/9/01
1,2-Dichloroethane	<5	ug/l	6/9/01
1,1-Dichloroethene	<5	ug/l	6/9/01
1,2-Dichloroethene, Total	82	ug/l	6/9/01
1,2-Dichloropropane	<5	ug/l	6/9/01
cis-1,3-Dichloropropene	<5	ug/l	6/9/01
trans-1,3-Dichloropropene	<5	ug/l	6/9/01
Ethyl benzene	<5	ug/l	6/9/01
2-Hexanone	<10	ug/l	6/9/01
Methylene chloride	<10	ug/l	6/9/01
4-Methyl-2-pentanone (MIBK)	<10	ug/l	6/9/01
Styrene	<5	ug/l	6/9/01
1,1,2,2-Tetrachloroethane	<5	ug/l	6/9/01
Tetrachloroethene	<5	ug/l	6/9/01
Toluene	<5	ug/l	6/9/01
1,1,1-Trichloroethane	<5	ug/l	6/9/01
1,1,2-Trichloroethane	<5	ug/l	6/9/01
Trichloroethene	57	ug/l	6/9/01
Vinyl chloride	<5	ug/l	6/9/01
Xylenes (Total)	<5	ug/l	6/9/01
Surrogate (4-BFB)	93	%R	6/9/01

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Surrogate (Tol-d8)	102	%R	6/9/01
Surrogate (1,2-DCA-d4)	104	%R	6/9/01
MTBE	<5	ug/l	6/9/01
Naphthalene	<5	ug/l	6/9/01

Sample ID: MW 8

Source: GSI Sherburne
LSL Sample ID: 0105854-010

Sample Matrix: NPW
Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 524.2 Volatile Organic Chemicals			
Benzene	<10	ug/l	6/9/01
Bromobenzene	<10	ug/l	6/9/01
Bromochloromethane	<10	ug/l	6/9/01
Bromomethane	<10	ug/l	6/9/01
sec-Butylbenzene	<10	ug/l	6/9/01
n-Butylbenzene	<10	ug/l	6/9/01
tert-Butylbenzene	<10	ug/l	6/9/01
Carbon tetrachloride	<10	ug/l	6/9/01
Chlorobenzene	<10	ug/l	6/9/01
Chloroethane	<10	ug/l	6/9/01
Chloromethane	<10	ug/l	6/9/01
2-Chlorotoluene	<10	ug/l	6/9/01
4-Chlorotoluene	<10	ug/l	6/9/01
Dibromomethane	<10	ug/l	6/9/01
1,2-Dichlorobenzene	<10	ug/l	6/9/01
1,3-Dichlorobenzene	<10	ug/l	6/9/01
1,4-Dichlorobenzene	<10	ug/l	6/9/01
Dichlorodifluoromethane	<10	ug/l	6/9/01
1,1-Dichloroethane	<10	ug/l	6/9/01
1,2-Dichloroethane	<10	ug/l	6/9/01
cis-1,2-Dichloroethene	87	ug/l	6/9/01
1,1-Dichloroethene	<10	ug/l	6/9/01
trans-1,2-Dichloroethene	<10	ug/l	6/9/01
1,2-Dichloropropane	<10	ug/l	6/9/01
1,3-Dichloropropane	<10	ug/l	6/9/01
2,2-Dichloropropane	<10	ug/l	6/9/01
1,1-Dichloropropene	<10	ug/l	6/9/01
cis-1,3-Dichloropropene	<10	ug/l	6/9/01
trans-1,3-Dichloropropene	<10	ug/l	6/9/01
Ethyl benzene	<10	ug/l	6/9/01

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LSL Project No.: 0105854

Authorization:

Report Date: 6/13/01

Hexachlorobutadiene	<10 ug/l	6/9/01
Isopropylbenzene (Cumene)	<10 ug/l	6/9/01
4-Isopropyl toluene (Cymene)	<10 ug/l	6/9/01
Methylene chloride	<10 ug/l	6/9/01
N-Propylbenzene	<10 ug/l	6/9/01
Styrene	<10 ug/l	6/9/01
1,1,1,2-Tetrachloroethane	<10 ug/l	6/9/01
1,1,2,2-Tetrachloroethane	<10 ug/l	6/9/01
Tetrachloroethene	<10 ug/l	6/9/01
Toluene	<10 ug/l	6/9/01
1,2,3-Trichlorobenzene	<10 ug/l	6/9/01
1,2,4-Trichlorobenzene	<10 ug/l	6/9/01
1,1,1-Trichloroethane	<10 ug/l	6/9/01
1,1,2-Trichloroethane	<10 ug/l	6/9/01
Trichloroethene	63 ug/l	6/9/01
Trichlorofluoromethane (Freon 11)	<10 ug/l	6/9/01
1,2,3-Trichloropropane	<10 ug/l	6/9/01
1,2,4-Trimethylbenzene	<10 ug/l	6/9/01
1,3,5-Trimethylbenzene	<10 ug/l	6/9/01
Vinyl chloride	<10 ug/l	6/9/01
Bromodichloromethane	<10 ug/l	6/9/01
Bromoform	<10 ug/l	6/9/01
Chloroform	<10 ug/l	6/9/01
o-Xylene	<10 ug/l	6/9/01
m-Xylene	<10 ug/l	6/9/01
p-Xylene	<10 ug/l	6/9/01
(¥) **Dibromochloromethane**	<10 ug/l	6/9/01

(¥) Elevated detection limits due to the presence of a petroleum hydrocarbon pattern in the sample.

(1) EPA 8270 TCL Semi-Volatiles*

Acenaphthene	<5 ug/l	6/5/01
Acenaphthylene	<5 ug/l	6/5/01
Anthracene	<5 ug/l	6/5/01
Benzo(a)anthracene	<5 ug/l	6/5/01
Benzo(b)fluoranthene	<5 ug/l	6/5/01
Benzo(k)fluoranthene	<5 ug/l	6/5/01
Benzo(ghi)perylene	<5 ug/l	6/5/01
Benzo(a)pyrene	<5 ug/l	6/5/01
4-Bromophenyl-phenylether	<5 ug/l	6/5/01
Butylbenzylphthalate	<5 ug/l	6/5/01
Carbazole	<5 ug/l	6/5/01

-- LABORATORY ANALYSIS REPORT --

Stearns & Wheler Engineering

Jeff Kiggins

Phone Number: (315) 655-8161

Project No.: R60007.10.1700

LSL Project No.: 0105854

Authorization:

Report Date: 6/13/01

4-Chloroaniline	<5 ug/l	6/5/01
bis(2-Chloroethoxy)methane	<5 ug/l	6/5/01
bis(2-Chloroethyl)ether	<5 ug/l	6/5/01
bis(2-Chloroisopropyl)ether	<5 ug/l	6/5/01
4-Chloro-3-methylphenol	<5 ug/l	6/5/01
2-Chloronaphthalene	<5 ug/l	6/5/01
2-Chlorophenol	<5 ug/l	6/5/01
4-Chlorophenyl-phenylether	<5 ug/l	6/5/01
Chrysene	<5 ug/l	6/5/01
Dibenz(a,h)anthracene	<5 ug/l	6/5/01
Dibenzofuran	<5 ug/l	6/5/01
Di-n-butylphthalate	<5 ug/l	6/5/01
1,2-Dichlorobenzene	<5 ug/l	6/5/01
1,3-Dichlorobenzene	<5 ug/l	6/5/01
1,4-Dichlorobenzene	<5 ug/l	6/5/01
3,3'-Dichlorobenzidine	<10 ug/l	6/5/01
2,4-Dichlorophenol	<5 ug/l	6/5/01
Diethylphthalate	<5 ug/l	6/5/01
2,4-Dimethylphenol	<5 ug/l	6/5/01
Dimethylphthalate	<5 ug/l	6/5/01
2,4-Dinitrophenol	<5 ug/l	6/5/01
2,4-Dinitrotoluene	<5 ug/l	6/5/01
2,6-Dinitrotoluene	<5 ug/l	6/5/01
Di-n-octylphthalate	<5 ug/l	6/5/01
bis(2-Ethylhexyl)phthalate	<5 ug/l	6/5/01
Fluoranthene	<5 ug/l	6/5/01
Fluorene	<5 ug/l	6/5/01
Hexachlorobenzene	<5 ug/l	6/5/01
Hexachlorobutadiene	<5 ug/l	6/5/01
Hexachlorocyclopentadiene	<5 ug/l	6/5/01
Hexachloroethane	<5 ug/l	6/5/01
Indeno(1,2,3-c,d)pyrene	<5 ug/l	6/5/01
Isophorone	<5 ug/l	6/5/01
2-Methyl-4,6-dinitrophenol	<10 ug/l	6/5/01
2-Methylnaphthalene	11 ug/l	6/5/01
2-Methylphenol (o-Cresol)	<5 ug/l	6/5/01
4-Methylphenol (p-Cresol)	<5 ug/l	6/5/01
Naphthalene	5.8 ug/l	6/5/01
2-Nitroaniline	<10 ug/l	6/5/01
3-Nitroaniline	<10 ug/l	6/5/01

Stearns & Wheler Engineering

Jeff Kiggins

Phone Number: (315) 655-8161

Project No.: R60007.10.1700

LSL Project No.: 0105854

Authorization:

Report Date: 6/13/01

4-Nitroaniline	<10 ug/l	6/5/01
Nitrobenzene	<5 ug/l	6/5/01
2-Nitrophenol (o-Nitrophenol)	<5 ug/l	6/5/01
4-Nitrophenol	<5 ug/l	6/5/01
N-Nitrosodiphenylamine	<5 ug/l	6/5/01
N-Nitroso-di-n-propylamine	<5 ug/l	6/5/01
Pentachlorophenol	<10 ug/l	6/5/01
Phenanthrene	<5 ug/l	6/5/01
Phenol	<5 ug/l	6/5/01
Pyrene	<5 ug/l	6/5/01
1,2,4-Trichlorobenzene	<5 ug/l	6/5/01
2,4,5-Trichlorophenol	<5 ug/l	6/5/01
2,4,6-Trichlorophenol	<5 ug/l	6/5/01

**A pattern resembling Fuel Oil#2 is present at an estimated amount of 9.9mg/l.*

Sample ID: Duplicate

Source: GSI Sherburne

LSL Sample ID: 0105854-011

Sample Matrix: NPW

Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 524.2 Volatile Organic Chemicals			
Benzene	<1	ug/l	6/9/01
Bromobenzene	<1	ug/l	6/9/01
Bromochloromethane	<1	ug/l	6/9/01
Bromomethane	<1	ug/l	6/9/01
sec-Butylbenzene	<1	ug/l	6/9/01
n-Butylbenzene	<1	ug/l	6/9/01
tert-Butylbenzene	<1	ug/l	6/9/01
Carbon tetrachloride	<1	ug/l	6/9/01
Chlorobenzene	<1	ug/l	6/9/01
Chloroethane	<1	ug/l	6/9/01
Chloromethane	<1	ug/l	6/9/01
2-Chlorotoluene	<1	ug/l	6/9/01
4-Chlorotoluene	<1	ug/l	6/9/01
Dibromomethane	<1	ug/l	6/9/01
1,2-Dichlorobenzene	<1	ug/l	6/9/01
1,3-Dichlorobenzene	<1	ug/l	6/9/01
1,4-Dichlorobenzene	<1	ug/l	6/9/01
Dichlorodifluoromethane	<1	ug/l	6/9/01
1,1-Dichloroethane	2.6	ug/l	6/9/01
1,2-Dichloroethane	<1	ug/l	6/9/01

-- LABORATORY ANALYSIS REPORT --

Stearns & Wheler Engineering

Jeff Kiggins

Phone Number: (315) 655-8161

Project No.: R60007.10.1700

LSL Project No.: 0105854

Authorization:

Report Date: 6/13/01

cis-1,2-Dichloroethene	75	ug/l	6/9/01
1,1-Dichloroethene	<1	ug/l	6/9/01
trans-1,2-Dichloroethene	<1	ug/l	6/9/01
1,2-Dichloropropane	<1	ug/l	6/9/01
1,3-Dichloropropane	<1	ug/l	6/9/01
2,2-Dichloropropane	<1	ug/l	6/9/01
1,1-Dichloropropene	<1	ug/l	6/9/01
cis-1,3-Dichloropropene	<1	ug/l	6/9/01
trans-1,3-Dichloropropene	<1	ug/l	6/9/01
Ethyl benzene	<1	ug/l	6/9/01
Hexachlorobutadiene	<1	ug/l	6/9/01
Isopropylbenzene (Cumene)	<1	ug/l	6/9/01
4-Isopropyl toluene (Cymene)	<1	ug/l	6/9/01
Methylene chloride	<1	ug/l	6/9/01
N-Propylbenzene	<1	ug/l	6/9/01
Styrene	<1	ug/l	6/9/01
1,1,1,2-Tetrachloroethane	<1	ug/l	6/9/01
1,1,2,2-Tetrachloroethane	<1	ug/l	6/9/01
Tetrachloroethene	<1	ug/l	6/9/01
Toluene	<1	ug/l	6/9/01
1,2,3-Trichlorobenzene	<1	ug/l	6/9/01
1,2,4-Trichlorobenzene	<1	ug/l	6/9/01
1,1,1-Trichloroethane	4.5	ug/l	6/9/01
1,1,2-Trichloroethane	<1	ug/l	6/9/01
Trichloroethene	54	ug/l	6/9/01
Trichlorofluoromethane (Freon 11)	<1	ug/l	6/9/01
1,2,3-Trichloropropane	<1	ug/l	6/9/01
1,2,4-Trimethylbenzene	<1	ug/l	6/9/01
1,3,5-Trimethylbenzene	<1	ug/l	6/9/01
Vinyl chloride	<1	ug/l	6/9/01
Bromodichloromethane	<1	ug/l	6/9/01
Bromoform	<1	ug/l	6/9/01
Chloroform	<1	ug/l	6/9/01
o-Xylene	<1	ug/l	6/9/01
m-Xylene	<1	ug/l	6/9/01
p-Xylene	<1	ug/l	6/9/01
Dibromochloromethane	<1	ug/l	6/9/01

-- LABORATORY ANALYSIS REPORT --

Stearns & Wheler Engineering

Jeff Kiggins
Phone Number: (315) 655-8161

Project No.: R60007.10.1700
LSL Project No.: 0105854
Authorization:
Report Date: 6/13/01

Sample ID: Trip Blank

Source: GSI Sherburne
LSL Sample ID: 0105854-012
Sample Matrix: TB
Date Sampled: 5/30/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 524.2 Volatile Organic Chemicals			
Benzene	<1	ug/l	6/9/01
Bromobenzene	<1	ug/l	6/9/01
Bromochloromethane	<1	ug/l	6/9/01
Bromomethane	<1	ug/l	6/9/01
sec-Butylbenzene	<1	ug/l	6/9/01
n-Butylbenzene	<1	ug/l	6/9/01
tert-Butylbenzene	<1	ug/l	6/9/01
Carbon tetrachloride	<1	ug/l	6/9/01
Chlorobenzene	<1	ug/l	6/9/01
Chloroethane	<1	ug/l	6/9/01
Chloromethane	<1	ug/l	6/9/01
2-Chlorotoluene	<1	ug/l	6/9/01
4-Chlorotoluene	<1	ug/l	6/9/01
Dibromomethane	<1	ug/l	6/9/01
1,2-Dichlorobenzene	<1	ug/l	6/9/01
1,3-Dichlorobenzene	<1	ug/l	6/9/01
1,4-Dichlorobenzene	<1	ug/l	6/9/01
Dichlorodifluoromethane	<1	ug/l	6/9/01
1,1-Dichloroethane	<1	ug/l	6/9/01
1,2-Dichloroethane	<1	ug/l	6/9/01
cis-1,2-Dichloroethene	<1	ug/l	6/9/01
1,1-Dichloroethene	<1	ug/l	6/9/01
trans-1,2-Dichloroethene	<1	ug/l	6/9/01
1,2-Dichloropropane	<1	ug/l	6/9/01
1,3-Dichloropropane	<1	ug/l	6/9/01
2,2-Dichloropropane	<1	ug/l	6/9/01
1,1-Dichloropropene	<1	ug/l	6/9/01
cis-1,3-Dichloropropene	<1	ug/l	6/9/01
trans-1,3-Dichloropropene	<1	ug/l	6/9/01
Ethyl benzene	<1	ug/l	6/9/01
Hexachlorobutadiene	<1	ug/l	6/9/01
Isopropylbenzene (Cumene)	<1	ug/l	6/9/01
4-Isopropyl toluene (Cymene)	<1	ug/l	6/9/01
Methylene chloride	<1	ug/l	6/9/01

Stearns & Wheler Engineering

Jeff Kiggins
Phone Number: (315) 655-8161

Project No.: R60007.10.1700
LSL Project No.: 0105854
Authorization:
Report Date: 6/13/01

	N-Propylbenzene	<1 ug/l	6/9/01
	Styrene	<1 ug/l	6/9/01
	1,1,1,2-Tetrachloroethane	<1 ug/l	6/9/01
	1,1,2,2-Tetrachloroethane	<1 ug/l	6/9/01
	Tetrachloroethene	<1 ug/l	6/9/01
	Toluene	<1 ug/l	6/9/01
	1,2,3-Trichlorobenzene	<1 ug/l	6/9/01
	1,2,4-Trichlorobenzene	<1 ug/l	6/9/01
	1,1,1-Trichloroethane	<1 ug/l	6/9/01
	1,1,2-Trichloroethane	<1 ug/l	6/9/01
	Trichloroethene	<1 ug/l	6/9/01
	Trichlorofluoromethane (Freon 11)	<1 ug/l	6/9/01
	1,2,3-Trichloropropane	<1 ug/l	6/9/01
	1,2,4-Trimethylbenzene	<1 ug/l	6/9/01
	1,3,5-Trimethylbenzene	<1 ug/l	6/9/01
	Vinyl chloride	<1 ug/l	6/9/01
	Bromodichloromethane	<1 ug/l	6/9/01
	Bromoform	<1 ug/l	6/9/01
	Chloroform	<1 ug/l	6/9/01
	o-Xylene	<1 ug/l	6/9/01
	m-Xylene	<1 ug/l	6/9/01
	p-Xylene	<1 ug/l	6/9/01
	Dibromochloromethane	<1 ug/l	6/9/01
(1)	EPA 8260B TCL Volatiles		
	Acetone	<10 ug/l	6/9/01
	Benzene	<5 ug/l	6/9/01
	Bromodichloromethane	<5 ug/l	6/9/01
	Bromoform	<5 ug/l	6/9/01
	Bromomethane	<5 ug/l	6/9/01
	2-Butanone (MEK)	<10 ug/l	6/9/01
	Carbon disulfide	<5 ug/l	6/9/01
	Carbon tetrachloride	<5 ug/l	6/9/01
	Chlorobenzene	<5 ug/l	6/9/01
	Chloroethane	<5 ug/l	6/9/01
	Chloroform	<5 ug/l	6/9/01
	Chloromethane	<5 ug/l	6/9/01
	Dibromochloromethane	<5 ug/l	6/9/01
	1,1-Dichloroethane	<5 ug/l	6/9/01
	1,2-Dichloroethane	<5 ug/l	6/9/01
	1,1-Dichloroethene	<5 ug/l	6/9/01

-- LABORATORY ANALYSIS REPORT --

Stearns & Wheler Engineering		**Jeff Kiggins**	
		Phone Number:	**(315) 655-8161**
Project No.:	**R60007.10.1700**	**LSL Project No.:**	**0105854**
Authorization:		**Report Date:**	**6/13/01**

1,2-Dichloroethene, Total	<5	ug/l	6/9/01
1,2-Dichloropropane	<5	ug/l	6/9/01
cis-1,3-Dichloropropene	<5	ug/l	6/9/01
trans-1,3-Dichloropropene	<5	ug/l	6/9/01
Ethyl benzene	<5	ug/l	6/9/01
2-Hexanone	<10	ug/l	6/9/01
Methylene chloride	<10	ug/l	6/9/01
4-Methyl-2-pentanone (MIBK)	<10	ug/l	6/9/01
Styrene	<5	ug/l	6/9/01
1,1,2,2-Tetrachloroethane	<5	ug/l	6/9/01
Tetrachloroethene	<5	ug/l	6/9/01
Toluene	<5	ug/l	6/9/01
1,1,1-Trichloroethane	<5	ug/l	6/9/01
1,1,2-Trichloroethane	<5	ug/l	6/9/01
Trichloroethene	<5	ug/l	6/9/01
Vinyl chloride	<5	ug/l	6/9/01
Xylenes (Total)	<5	ug/l	6/9/01
Surrogate (4-BFB)	95	%R	6/9/01
Surrogate (Tol-d8)	103	%R	6/9/01
Surrogate (1,2-DCA-d4)	94	%R	6/9/01
MTBE	<5	ug/l	6/9/01
Naphthalene	<5	ug/l	6/9/01

Life Science Laboratories, Inc.
5854 Butternut Dr., East Syracuse, New York 13057
Phone # (315) 445-1105 Fax # (315) 445-1301

Chain of Custody Record

Report Address:
Name: JEFF KIGGINS
Company: STEARNS + WHEELER
Street: 1 REMINGTON PARK DRIVE
City/State: CAZENOVIA, NY Zip: 13035
Phone #: (315) 655-8161 Fax #: (315) 655-4180
Email:

Invoice Address (if different):

Authorization or PO# :

Turnaround Time Requested: NEXT DAY • 2 DAY • 72-Hr RUSH• 7-day RUSH• 14-Day STD *Additional charges may apply

Date Needed or Special Instructions:

Client Project Name or Source: GSI SHERBURNE

Client Project Number: R60007.10.1700

Contact Person and phone # (in case the lab has questions): JEFF KIGGINS 655 8161 ext 247

LSL Project Number: 105854

LSL Sample Num	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp	Matrix	Preserv. Added	Containers #	Containers size/type	Requested Analyses	LSL Preserv. Check
001A	MW 30	5/30/01	11:00	X		GW		2	VIALS	VOC's + MTBE + NAPHTHALENE (8260)	
002A	P 8		10:10								
003A	MW 25		10:45								
004A	MW 24		11:10								
005A	MW 23		11:30								
006A	MW 29		11:25								
007A	MW 22		11:35								
008A	MW 20		12:50								
009A	MW 21		12:35								
010A	MW 8		1:15							VOC's (502.2)	

LSL Use Only:
011 A Duplicate 5/30/01 (8260)
012 Trip Blank

Containers received this c-o-c

Custody Transfers

		Date	Time
Sampled By: JEFF KIGGINS	Received By:	5/30/01	
Relinquished By: Jeffrey L Kiggins	Received By:	5/30/01	4:35
Relinquished By:	Rec'd for Lab By: EG	05-30-01 16:37 RCVD	

Shipment Method: Received Intact: Y N Sample Receipt Temp. 9.2 °C

*** All areas of this Chain of Custody Record MUST Be filled out in order to process samples in a timely manner***

2/4

Life Science Laboratories, Inc.
5854 Butternut Dr., East Syracuse, New York 13057
Phone # (315) 445-1105 Fax # (315) 445-1301

Chain of Custody Record

Report Address:
Name: JEFF KIGGINS
Company: STEARNS + WHEELER
Street: 1 REMINGTON PARK DRIVE
City/State: CAZENOVIA, NY Zip: 13035
Phone #: (315) 655-8161 Fax #: (315) 655-4180
Email:

Invoice Address (if different):

Authorization or PO# :

Turnaround Time Requested: 14-Day STD
NEXT DAY • 72-Hr RUSH• *Additional charges may apply
2 DAY • 7-day RUSH•

Date Needed or Special Instructions:

Client Project Name or Source: GSI SHERBURNE
Client Project Number: 60007.10.1100
Contact Person and phone # (in case the lab has questions): JEFF KIGGINS 655 8161 ext 247
LSL Project Number: 105854

LSL Sample Num.	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Requested Analyses	LSL Preserv. Check
005 B	MW 23	5/30/01	11:30	X		GW		1	1/2 PINT	ALKALINITY (310.1)	
004 B	MW 24		11:10								
003 B	MW 25		10:45								
006 B	MW 29		11:25								
001 B	MW 30		11:00								
002 B	P 8		10:10								
007 B	MW 22		11:35								
007 C	MW 22		11:35							CHLORIDE	
005 C	MW 23		11:30								
004 C	MW 24		11:10								

LSL Use Only:

Custody Transfers

		Date	Time
Sampled By: JEFF KIGGINS	Received By:	5/30/01	
Relinquished By: Jeffrey J Kiggins	Received By:	5/30/01	4:35
Relinquished By:	Rec'd for Lab By:	05-30-01 16:37 DGVD	

Containers received this c-o-c | Shipment Method: | Received Intact: Y N | Sample Receipt Temp. °C

*** All areas of this Chain of Custody Record MUST Be filled out in order to process samples in a timely manner***

Life Science Laboratories, Inc.
5854 Butternut Dr., East Syracuse, New York 13057
Phone # (315) 445-1105 Fax # (315) 445-1301

Chain of Custody Record

Report Address:
Name: JEFF KIGGINS
Company: STEARNS + WHEELER
Street: 1 REMINGTON PARK DRIVE
City/State: CAZENOVIA, NY Zip: 13035
Phone #: (315) 655-8161 Fax #: (315) 655-4180
Email:

Invoice Address (if different):

Authorization or PO# :

Turnaround Time Requested: NEXT DAY • 72-Hr RUSH• 14-Day STD 2 DAY • 7-day RUSH• additional charges may apply

Date Needed or Special Instructions:

Client Project Name or Source: GSI SHERBURNE

Client Project Number: R60007.10.1700

Contact Person and phone # (in case the lab has questions): JEFF KIGGINS 655 8161 ext 247

LSL Project Number: 105854

LSL Sample Num.	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Requested Analyses	LSL Preserv. Check
003C	MW 25	5/30/01	10:45	X		GW		1	1/2 PINT	CHLORIDE	
006C	MW 29		11:25								
001C	MW 30		11:00								
002C	P 8		10:10								
002D	P8		10:10					1	PINT	METALS Fe, Ca*, Mg, Na, K (200)	
007D	MW 22		11:35								
005D	MW 23		11:30								
004D	MW 24		11:10								
003D	MW 25		10:45								
006D	MW 29		11:25								

LSL Use Only:

* Ca per client (JK) 6-14-01. DMM

Custody Transfers

		Date	Time
Sampled By: JEFF KIGGINS	Received By:	5/30/01	
Relinquished By: Jeffrey L. Kiggins	Received By:	5/30/01	4:35
Relinquished By:	Rec'd for Lab By: gr	05-30-01 16:37 RCVD	

Containers received this c-o-c | Shipment Method: | Received Intact: Y N | Sample Receipt Temp. °C

*** All areas of this Chain of Custody Record MUST Be filled out in order to process samples in a timely manner***

Life Science Laboratories, Inc.
5854 Butternut Dr., East Syracuse, New York 13057
Phone # (315) 445-1105 Fax # (315) 445-1301

Chain of Custody Record

Report Address:
Name: JEFF KIGGINS
Company: STEARNS + WHEELER
Street: 1 REMINGTON PARK DRIVE
City/State: CAZENOVIA, NY Zip: 13035
Phone #: (315) 655-8161 Fax #: (315) 655-4186
Email:

Invoice Address (if different):

Authorization or PO# :

Turnaround Time Requested: 14-Day STD | NEXT DAY • | 72-Hr RUSH• | 2 DAY • | 7-day RUSH• | •Additional charges may apply

Date Needed or Special Instructions:

Client Project Name or Source: GSI SHERBURNE

Client Project Number: RL0007.10.1700

Contact Person and phone # (in case the lab has questions): JEFF KIGGINS 655 8161 ext 247

LSL Project Number: 105854

LSL Sample Num.	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Requested Analyses	LSL Preserv. Check
001 D	MW30	5/30/01	11:00	X		GW		1	PINT	METALS Fe, Cu*, Mg, Na, K (200)	
001 E	MW 30		11:00					1	PINT	SO_4^{-2} SULFATE	
006 E	MW 29		11:25								
003 E	MW 25		10:45								
004 E	MW 24		11:10								
005 E	MW 23		11:30								
007 E	MW 22		11:35								
002 E	P 8		10:10								
008 D	MW 8	↓	1:15	↓		↓		1	1 LITER	SVOCs (8270)	

LSL Use Only:

* Ca per client (JK) 6-14-01 BMW

Custody Transfers

		Date	Time
Sampled By: JEFF KIGGINS	Received By:	5/30/01	
Relinquished By: Jeffrey L Kiggins	Received By:	5/30/01	4:35
Relinquished By:	Rec'd for Lab By:	05-30-01	16:37 RCVD

Containers received this c-o-c | Shipment Method: | Received Intact: Y N | Sample Receipt Temp. °C

*** All areas of this Chain of Custody Record MUST Be filled out in order to process samples in a timely manner***

LSL

Jeff Kiggins
Stearns & Wheler Engineering
1 Remington Park Drive
Cazenovia, NY 13035

Phone: (315) 655-8161
FAX: (315) 655-4180

Laboratory Analysis Report
For
Stearns & Wheler Engineering

LSL Project Number: 0105935

Life Science Laboratories, Inc.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1105
Fax (315) 445-1301
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

This report was reviewed by: Dorine Legault QC *Date:* 6-13-01

Life Science Laboratories, Inc.

- - LABORATORY ANALYSIS REPORT - -

Stearns & Wheler Engineering

Jeff Kiggins

Phone: (315) 655-8161

Sample ID: MW17

Project No.:	**Authorization:**
Source:	**LSL Project No.:** 0105935
LSL Sample ID: 0105935-001	**Date Sampled:** 6/1/01
Sample Matrix: NPW	**Report Date:** 6/13/01

Parameter(s)	Results	Units	Analysis Date & Time
(1) EPA 8260B TCL Volatiles			
Acetone	<10	ug/l	6/9/01
Benzene	<5	ug/l	6/9/01
Bromodichloromethane	<5	ug/l	6/9/01
Bromoform	<5	ug/l	6/9/01
Bromomethane	<5	ug/l	6/9/01
2-Butanone (MEK)	<10	ug/l	6/9/01
Carbon disulfide	<5	ug/l	6/9/01
Carbon tetrachloride	<5	ug/l	6/9/01
Chlorobenzene	<5	ug/l	6/9/01
Chloroethane	<5	ug/l	6/9/01
Chloroform	<5	ug/l	6/9/01
Chloromethane	<5	ug/l	6/9/01
Dibromochloromethane	<5	ug/l	6/9/01
1,1-Dichloroethane	<5	ug/l	6/9/01
1,2-Dichloroethane	<5	ug/l	6/9/01
1,1-Dichloroethene	<5	ug/l	6/9/01
1,2-Dichloroethene, Total	160	ug/l	6/9/01
1,2-Dichloropropane	<5	ug/l	6/9/01
cis-1,3-Dichloropropene	<5	ug/l	6/9/01
trans-1,3-Dichloropropene	<5	ug/l	6/9/01
Ethyl benzene	<5	ug/l	6/9/01
2-Hexanone	<10	ug/l	6/9/01
Methylene chloride	<10	ug/l	6/9/01
4-Methyl-2-pentanone (MIBK)	<10	ug/l	6/9/01
Styrene	<5	ug/l	6/9/01
1,1,2,2-Tetrachloroethane	<5	ug/l	6/9/01
Tetrachloroethene	<5	ug/l	6/9/01
Toluene	<5	ug/l	6/9/01
1,1,1-Trichloroethane	<5	ug/l	6/9/01
1,1,2-Trichloroethane	<5	ug/l	6/9/01
Trichloroethene	15	ug/l	6/9/01
Vinyl chloride	23	ug/l	6/9/01
Xylenes (Total)	<5	ug/l	6/9/01
Surrogate (4-BFB)	92	%R	6/9/01
Surrogate (Tol-d8)	102	%R	6/9/01

Life Science Laboratories, Inc.

Analysis performed at NYS DOH ELAP Number: (1) 10248, (2) 10900

- - LABORATORY ANALYSIS REPORT - -

Stearns & Wheler Engineering

Jeff Kiggins

Phone: (315) 655-8161

Sample ID: MW17

Project No.:	**Authorization:**
Source:	**LSL Project No.:** 0105935
LSL Sample ID: 0105935-001	**Date Sampled:** 6/1/01
Sample Matrix: NPW	**Report Date:** 6/13/01

Parameter(s)	Results	Units	Analysis Date & Time
Surrogate (1,2-DCA-d4)	109	%R	6/9/01
MTBE	<5	ug/l	6/9/01
Naphthalene	<5	ug/l	6/9/01

Life Science Laboratories, Inc.

Analysis performed at NYS DOH ELAP Number: (1) 10248, (2) 10900

Life Science Laboratories, Inc.
5854 Butternut Dr., East Syracuse, New York 13057
Phone # (315) 445-1105 Fax # (315) 445-1301

Chain of Custody Record

Turnaround Time Requested: 14-Day STD | NEXT DAY • | 72-Hr RUSH• | 2 DAY • | 7-day RUSH• | *Additional charges may apply

Report Address:
Name: JEFF KIGGINS
Company: STEARNS & WHEELER
Street: 1 REDINGTON PARK DR
City/State: CAZENOVIA, NY Zip: 13035
Phone #: (315) 655 8161 Fax #: 655 4180
Email:

Invoice Address (if different):

Authorization or PO# :

Date Needed or Special Instructions:

Client Project Name or Source:

Client Project Number:

Contact Person and phone # (in case the lab has questions):

LSL Project Number: 105935

LSL Sample Num.	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Requested Analyses	LSL Preserv. Check
01	MW17	6/1/01		X		GW		2	VIALS	VOCs + MTBE + NAPHTALENE (8260)	

LSL Use Only:

Custody Transfers

		Date	Time
Sampled By: JEFF KIGGINS	Received By:	6/1/01	
Relinquished By: Jeffrey L. Kiggins	Received By:		
Relinquished By:	Rec'd for Lab By:	06-01-01	13:36 RCVD

2 Containers received this c-o-c | Shipment Method: | Received Intact: Y N | Sample Receipt Temp. 2.4 °C

*** All areas of this Chain of Custody Record MUST Be filled out in order to process samples in a timely manner***

Karen Maurano