FOURTH QUARTER 2000
PROGRESS REPORT

PHOTOCIRCUITS AND FORMER PASS & SEYMOUR SITES
31 & 45 SEA CLIFF AVENUE

SITE NUMBERS 1-30-009 AND 1-30-053A

Prepared for:
Photocircuits Corporation
31 Sea Cliff Avenue
Glen Cove, New York 11542

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February 19, 2001

1.0 Introduction

This Fourth Quarter 2000 (Q4) Progress Report is being submitted pursuant to the 1997 Order on Consent between Photocircuits Corporation and the New York State Department of Environmental Conservation (NYSDEC).

During the Fourth Quarter of 2000, the following tasks were accomplished:

- Operation of the Soil Vapor Extraction (SVE) System at the 31 Sea Cliff Avenue site was continued using the catalytic oxidation unit to treat recovered vapors. System operation was continuous during the fourth quarter with the following exceptions:

  - **October 21-25:** The system was shut down to allow the catalytic oxidizer to completely cool prior to preventive maintenance. The catalytic oxidizer was dismantled on 10/24 to inspect the inner core for acid corrosion. There was no observable corrosion discovered during this inspection.

  - **October 27:** The system was shut down from 9:00 am to 12:00 pm during acid scrubber preventive maintenance.

  - **October 31:** The system was shut down from 12:30 pm to 4:30 pm during acid scrubber preventive maintenance.

  - **December 1-5:** The system was shut down due to weekend facility maintenance that required shutting down the facility's water supply. Upon system start up, a separation at a PVC joint in the system exhaust crossover to the acid scrubber was discovered and repaired.

  - **December 15:** The system automatically shut down overnight due to high water level in the knockout pot. The water was decanted, and the system brought back on line at approximately 3:00 pm. The accumulated water was attributed to heavy rainfall and snow melt.

  - **December 16:** The system shut down over the weekend due to high water level in the knockout pot. The water was decanted, and the system brought back on line in the morning of December 18. The accumulated water was attributed to excessive rainfall.

- Two rounds of groundwater sampling and analysis were conducted (October and December) at the 31 Sea Cliff Avenue site in support of the bioremediation pilot test.

- Installation of the SVE/air sparging (AS) system at Building 7 (45 Sea Cliff Avenue) was completed. The system was started on November 1 and has been operating since

that time using activated carbon to treat collected vapors. The system has operated continuously since that time with the following exceptions:

- **November 29 – December 6:** The system was shut down when treatment efficiency of the first carbon vessel reached 85%. The carbon in Vessel 1 was changed on December 6, and Vessel 2 switched to the first vessel in the series. A third back-up carbon canister was outfitted during this period so that downtime would be minimized during future carbon changes.

- **December 12:** The system shut down during a power outage at approximately 12:00 pm. The system was brought back on line at 3:00 pm.

2.0 Discussion of Results

2.1 SVE System at 31 Sea Cliff Avenue

The SVE system at the 31 Sea Cliff Avenue site was installed as an Interim Remedial Measure (IRM), and started operation in April 2000. As described in the Q2 2000 report, vapor concentrations required the changing of the treatment system from activated carbon to a catalytic oxidation unit. The SVE system, equipped with the catalytic oxidizer/ scrubber for extracted vapor treatment, was restarted on July 21 and has operated continuously with only a few brief shutdowns for maintenance activities. An additional SVE well was connected to the system in December; well SVE-6 is located due west of the SVE system against the wall of the Photocircuits Main Building.

Monitoring data for the SVE system are provided in Table 1 in Attachment A, which includes the results of vapor sample analyses and operational parameters. Concentrations of recovered vapor phase contaminants are provided in micrograms per cubic meter (ug/m3) and in parts per million by volume (ppmv). Contaminant concentrations have also been multiplied by the system flow rate to express the rate of contaminant mass recovery in pounds per day (lbs/day). The rate of contaminant mass recovery is an important factor in evaluating the efficiency of system performance. As shown on the table in Attachment A, the system has been recovering less than two (2) lbs/day for the months of November and December. While this recovery rate still provides for a reasonable amount of mass removal on a monthly basis (i.e. - >30 lbs/month), it is clear that system efficiency is beginning to enter an asymptotic phase when compared to the initial recovery rates. Alternate extraction operation (e.g. – pulsing, selective well operation) may assist in determining how much longer to operate the system and how much additional contaminant mass can be feasibly recovered.

2.2 Bioremediation Pilot Test

As reported in the Q300 Report, Terra Systems of Wilmington Delaware was selected to conduct the bioremediation pilot test, and performed the injection of a nutrient solution (substrate) into the subsurface at the 31 Sea Cliff Avenue site during the week of August 28. Following the injection, groundwater samples were collected from the following monitoring wells/points: MW-7, MW-14, SMP-1, DMP-1, SMP-3, DMP-3, SMP-4 and DMP-4. These wells/points were sampled again on October 18-19, and December 20.

A report on the pilot test December groundwater monitoring results was prepared by Terra Systems and is included as Attachment B to this Progress Report. The main conclusion of the report is that the pilot test has demonstrated that the existing anaerobic bioremediation can be successfully enhanced to control the remediation VOCs in groundwater at the 31 Sea Cliff Avenue site. This conclusion is carefully drawn from a thorough evaluation of the three rounds of monitoring data; the three main findings in support of this conclusion are as follows:

Decrease in Concentrations of Parent Compounds – At the 31 Sea Cliff Avenue site, the parent chlorinated VOCs are trichloroethene (TCE) and 1,1,1-trichloroethane (1TCA). With limited exception, concentrations of these parent compounds have decreased over the course of the pilot test.

Increase in Concentrations of Daughter Compounds – The primary daughter compounds of TCE are *cis*-1,2-dichloroethene, vinyl chloride and ethene. The primary daughter compounds of 1TCA are 1,1-dichloroethane, chloroethane and ethane. The general trend was a distinct increase in the concentration of daughter compounds over the course of the pilot test.

Changes in Electron Acceptors – Changes in Electron Acceptors - In the absence of oxygen (anaerobic conditions), other compounds serve as electron acceptors as the organic substrate (soybean oil emulsion) is consumed and serve as indicators of anaerobic/reducing conditions. The more significant reactions are nitrate reduction (resulting in lower concentrations of nitrate and production of nitrogen gas and/or ammonia), iron reduction (resulting in higher dissolved iron concentrations, as the +2 valence state exhibits greater aqueous solubility), sulfate reduction (resulting in lower concentrations of sulfate and higher concentrations of sulfide) and methanogenesis (methane generation). The data for these parameters are consistent with relatively strong reducing conditions, under which reductive dehalogenation also takes place. Laboratory reports for the Bioremediation Pilot Study groundwater monitoring program have been included in Attachment C.

2.3 IRM at 45 Sea Cliff Avenue

As discussed in the Q3 2000 report, the installation of the SVE and AS wells was completed in the third quarter and the SVE wells were tested for preliminary contaminant

removal rate. During the fourth quarter, SVE/AS equipment was procured and delivered to the site. The SVE/AS system consists of a 10 horsepower (hp) regenerative blower and 5 hp compressor, along with electrical controls, filters, moisture separators, and valves; the system is contained within an insulated trailer, which has been located just outside of Building 7. Following delivery, the system components were connected to the piping networks for the AS and SVE wells. Two 1200 lb activated carbon adsorbers were attached in series to the blower outlet to treat recovered vapors. The SVE system was started on November 1; because the initial contaminant concentrations were relatively high, the AS portion of the system was not started. Monitoring data for November and December are presented on Table 2 in Attachment A.

3.0 Evaluation of Remedial Progress and Strategy

Remedial activities were undertaken at both the 31 and 45 Sea Cliff Avenue sites as Interim Remedial Measures (IRMs), as described in the approved *Work Plan 2000* dated March 2000. These remedial activities consisted of the installation and operation of the SVE system at the 31 Sea Cliff Avenue site and the installation and operation of the SVE/AS system at the 45 Sea Cliff Avenue site. These IRMs were undertaken consistent with 6 NYCRR Part 375 and Technical and Guidance Memoranda (TAGMs) 4042 and 4048; the NYSDEC Division of Environmental Remediation issued these TAGMs for IRMs. At both sites, the IRMs were undertaken as discrete actions, using technologies that are considered "presumptive remedies" for volatile organic compounds (VOCs) in soils. The following subsections discuss the overall progress of the IRMs and whether the IRM can serve as the final remedy for each of these areas, as discussed in Part 375 and the TAGMs.

3.1 31 Sea Cliff Avenue

As discussed in the previous section, the operation of the SVE system is entering an asymptotic phase. While the system may be operated for some time to provide additional contaminant mass removal, it is apparent that the general goal of removing contaminant mass from the unsaturated zone has been largely achieved. For this area, the IRM was intended to be only part of the final remedy, as contaminant mass is also present within the water table. The bioremediation pilot test was undertaken to determine if bioremediation technology could be successfully applied at this site and serve as the second component of the final remedy.

3.1.1 Evaluation of Alternatives

The decision to conduct a pilot test of bioremediation was based on a thorough examination of the available remedial alternatives. Given site conditions and the preference under both Part 375 and the federal superfund program for remedial alternatives that reduce the toxicity, mobility and volume of contamination, the universe

of feasible remedial alternatives is relatively small for this area. The technologies that were actively considered are as follows:

- Pump and treat
- Air sparging (coupled with SVE)
- In-situ chemical degradation
- In-situ biological degradation (bioremediation)

Pump and treat technology as applied to VOCs in groundwater has generally only been successful in providing hydraulic containment of contaminants and limited contaminant mass removal. A fuller discussion of the historic performance of pump and treat is provided in numerous technical papers and guidance documents[1]. For pump and treat to be effective in providing containment and mass removal, the pumping systems require operation over extended time periods (typically years to decades). Because pump and treat would only be expected to contain contaminants in groundwater (rather than to remove or destroy them) and would require a relatively lengthy timeframe versus other technologies (discussed below), pump and treat was not considered further.

Air sparging (AS) has been successfully applied at many sites for the removal of VOCs from groundwater, typically coupled with SVE. An AS/SVE pilot test (consisting of several short-term tests of AS and SVE in different combinations and flow rates) was performed at the 31 Sea Cliff Avenue site by McLaren/Hart in 1999[2]. Concerns were raised in the review of the pilot test report about whether air sparging could reliably address the full vertical and horizontal distribution of groundwater contamination due to the heterogeneity of the subsurface. For example, data from one of the tests suggested that short-circuiting was occurring within the SVE portion of the pilot testing system. To reliably apply sparging to groundwater contamination, it is critical to have effective communication between the AS and SVE components (demonstrated by air flow and pressure/vacuum measurements) to ensure that sparged contaminants are collected by the SVE component and not pushed further from the source area. It was also noted that anaerobic reductive dechlorination of chlorinated VOCs was taking place; this process was serving to degrade the chlorinated VOCs and would likely be necessary to degrade residual VOC contamination that would remain after sparging. The introduction of large amounts of air by sparging would likely shift subsurface reduction/oxidation (redox) conditions to aerobic, which would serve to stop the reductive dehalogenation process (which occurs under anaerobic conditions). Because of these concerns, and recognizing that other options employing the reductive dechlorination process (described below) appeared to have more advantages, air sparging was not considered further.

In-situ chemical degradation has been successfully applied to treat both chlorinated and non-chlorinated organic compounds in soil and groundwater. There are several commercial processes available, which typically employ a relatively strong oxidizing agent such as peroxide or permanganate compounds, which are injected in liquid or slurry form into contaminated zones in the subsurface; contaminant degradation takes place by chemical oxidation (either by the oxidant itself or through the formation of more reactive chemical species). Because this technology employs a direct chemical reaction (i.e. –

oxidation), it is necessary to get a sufficient mass of the oxidizing agent in direct contact with the contaminant mass for the reaction to occur; achieving contaminant contact is frequently complicated by the heterogeneous nature of the subsurface and non-uniformly distributed contaminant mass. At the 31 Sea Cliff Avenue site, the primary concern with the application of this type of technology is achieving the necessary contact with the contaminant mass over the full vertical distribution of contamination. Because of this concern over the effectiveness, and recognizing that other options employing the reductive dechlorination process (described below) appeared to have more advantages, in-situ chemical degradation was not considered further.

Both recent and historic site groundwater quality data indicated that chlorinated VOCs were being degraded by reductive dechlorination at the 31 Sea Cliff Avenue site. It can therefore be concluded that: 1) microbes are present in the subsurface at the site that use chlorinated VOCs as electron receptors, 2) the microbes are adapted to the reductive dechlorination process, and 3) the appropriate redox conditions exist. The strongest evidence is the presence of reductive dechlorination products for both the chlorinated ethenes and ethanes (e.g. – *cis*-1,2-dichloroethene and 1,1-dichloroethane). These dechlorination products have been detected in shallow groundwater samples and deeper groundwater samples from the drum storage area, which suggests that the dechlorination process takes place over the full vertical distribution of contamination. Given that a microbiologic contaminant degradation process was already present and operating in the subsurface at the 31 Sea Cliff Avenue site, the primary question is whether the natural process can be feasibly enhanced to produce effective and predictable remedial results. Thus, the bioremediation pilot test was undertaken to address this question. The clear conclusion of the pilot test report is that the existing natural process can be enhanced to provide reliable contaminant degradation in-situ. An additional round of monitoring is proposed to continue to evaluate the effectiveness of this technique.

3.2 45 Sea Cliff Avenue

SVE (coupled with air sparging) has been undertaken at the 45 Sea Cliff Avenue site as an IRM, consistent with 6 NYCRR Part 375 and NYSDEC TAGMs. As mentioned previously, SVE is a "presumptive remedy" for VOCs in soils. The application of SVE also requires that the soil exhibit appropriate properties (reasonable permeability and low organic carbon content). Designation as a "presumptive remedy" indicates that the technology has been selected as the preferred remedial alternative through the FS process at numerous other sites with similar conditions, such that the development of other remedial alternatives and the performance of an FS are not warranted to justify the remedy selection. Further, the "presumptive remedy" designation implies that the remedial technology is capable of achieving site-specific remedial goals.

The performance of the remedial system to date was described in a previous section. As mentioned the AS component of the remedial system has not yet been started due to the relatively high soil vapor concentrations being recovered. After the concentrations of soil vapor tail off (indicating that the SVE component of the remedy has removed a majority

of the contaminant mass present in the vadose zone and capillary fringe), the AS component will be started. Because the bulk of the contaminant mass is present in the vadose zone and shallow water table zone, it is likely that SVE by itself would address the contamination. However, contamination present in the shallow water table zone would only be removed at a relatively slow rate by SVE, because diffusion would limit the rate of contaminant movement from the water table to the capillary fringe. The AS component was added to the remedy to more aggressively remove the contaminant mass that is present in the shallow of the water table zone.

6 NYCRR Part 375 § 1.10-1.11 sets fort the criteria for remedy selection, the use of IRMs and the basis for concluding that the steps taken as an IRM at a site have fulfilled the requirements for a complete remedy. Based on the following factors, it can be reasonably anticipated that the SVE/AS system operating at the 45 Sea Cliff Avenue site will constitute the complete remedy for the site:

- Site conditions – Data generated during the Remedial Investigation (RI) indicated that contamination present at this site (principally tetrachloroethylene (PCE)) is present largely in the vadose zone and in the shallow water table under Building 7. Further, the geologic matrix is predominantly medium sands.

- SVE/AS performance – SVE coupled with AS has been successfully used as the complete remedy at similar sites on Long Island impacted by PCE and other chlorinated solvents (e.g. – dry cleaner sites).

- Lack of other viable technologies – Given site conditions, there do not appear to be alternative technologies that could be expected to achieve similar results to AS/SVE. For example, there is not evidence that reductive dechlorination is occurring (like the 31 Sea Cliff Avenue site), such that implementation of a similar bioremediation remedy might not be reliable.

- Initial system performance data – As discussed earlier, the initial system performance data has demonstrated that an appreciable contaminant mass is being removed from the vadose zone under Building 7. This contaminant mass is the source of the groundwater contamination, such that removing the contaminant mass will curtail further contaminant loading to the groundwater. The AS component will be implemented within the next several weeks to address the shallow groundwater contamination.

4.0 Schedule

The planned schedule of activities for the next several months is included in Attachment D.

5.0 References

1. USEPA, 1993. *Guidance for Evaluating the Technical Impracticability of Ground Water Restoration.* USEPA-OSWER Directive 9234.2-25.

   USEPA, 1997. *Ground Water Issue: Design Guidelines for Conventional Pump and Treat Systems.* USEPA-ORD, OSWER. EPA/540/S-97/504.

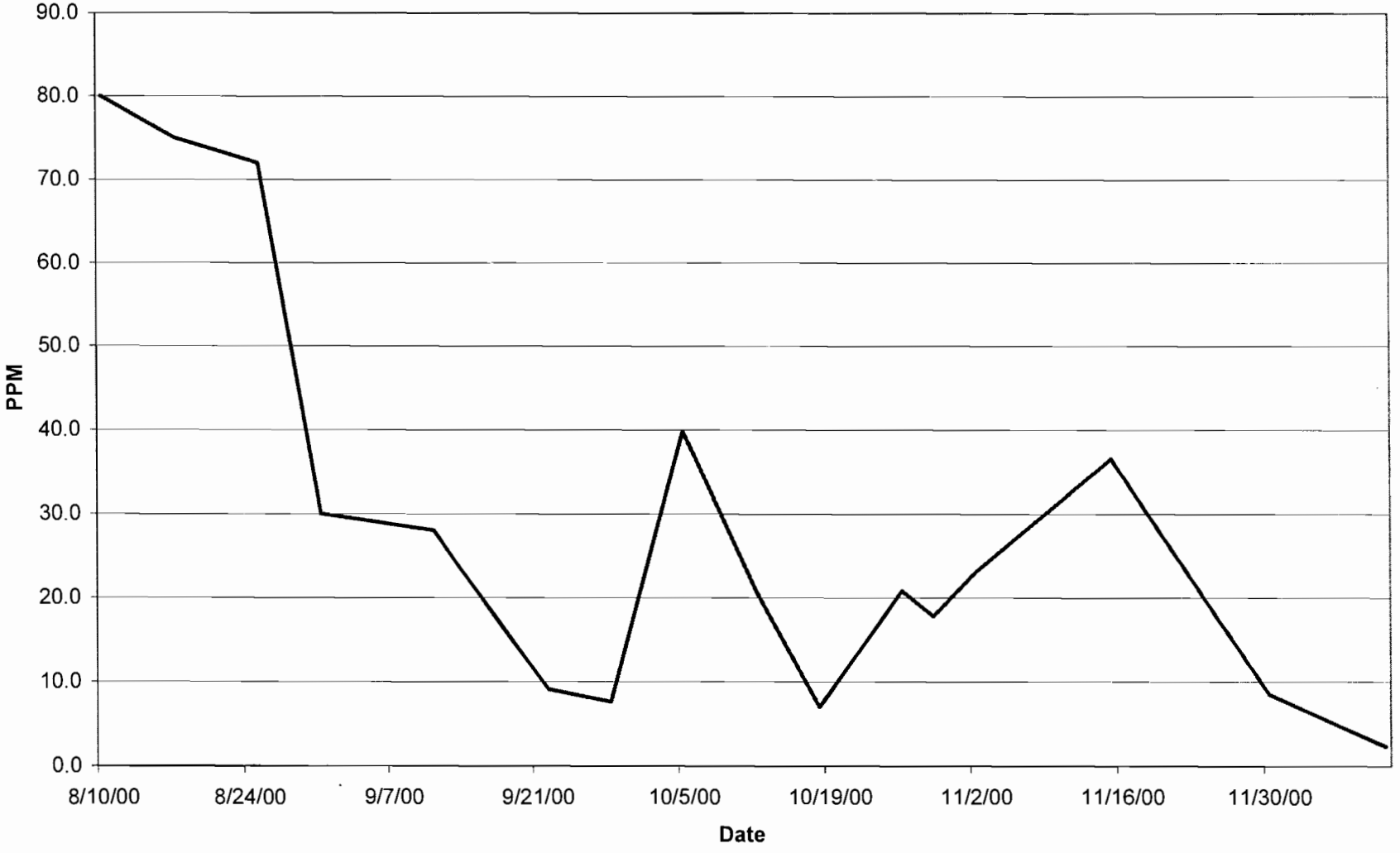
2. McLaren/Hart Environmental Services East, P.C., 1999. *Air Sparging/Soil Vapor Extraction Pilot Study Report – 31 and 45 Sea Cliff Avenue Sites, Photocircuits Corporation, Glen Cove, NY.*

ATTACHMENT A
MONITORING DATA
SOIL VAPOR EXTRACTION SYSTEMS

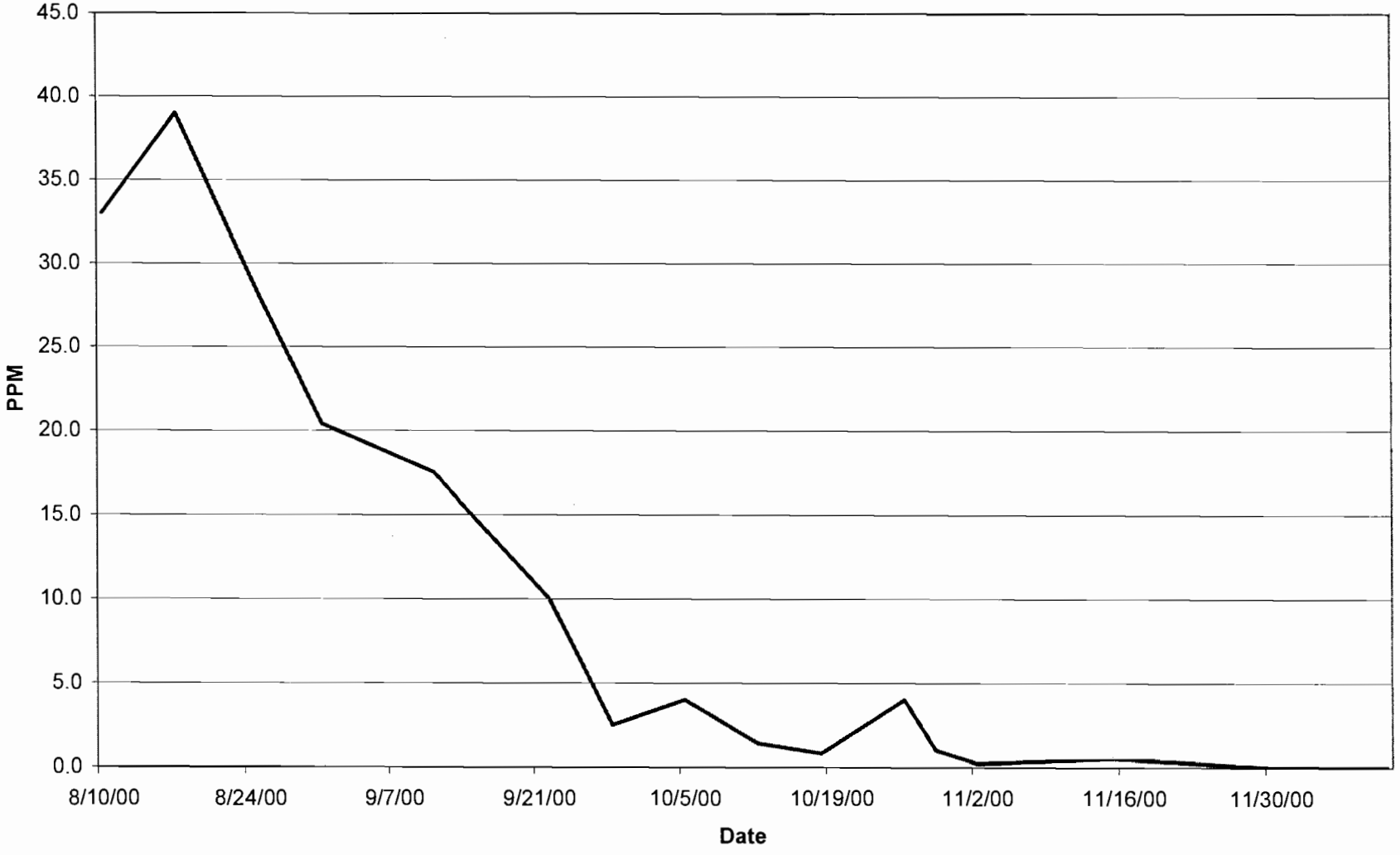
TABLE 1
SVE INLET MONITORING DATA - INLET LOAD CALCULATIONS
31 SEA CLIFF AVENUE

		MONITORING EVENT							
FLOW	**CFM**	**300**	**300**	**300**	**300**	**300**	**300**	**300**	**300**
PARAMETER	**UNITS**	**04/19/00**	**4/28/00**	**5/22/00**	**8/11/00**	**9/28/00**	**10/26/00**	**11/16/00**	**12/7/00**
1,1,1-Trichloroethane	**ug/m3**	273,000	675,000	2,090,000	176,000	181,000	124,000	50,800	55,000
1,1-Dichloroethane	**ug/m3**	6,000	29,000	133,000	7,890	8,080	7,750	2,120	2,220
Chloroethane	**ug/m3**	ND	3,200	26,500	496	514	623	547	1,910
PCE	**ug/m3**	ND	445	2,600	347	19.2	86	133	602
TCE	**ug/m3**	ND	<165	1,700	583	530	730	266	267
1,1-Dichloroethylene	**ug/m3**	ND	949	7,700	608	954	501	219	668
cis-1,2-Dichloroethylene	**ug/m3**	ND	<203	1,800	471	834	1,340	328	688
trans-1,2-Dichloroethylene	**ug/m3**	ND	<198	130	422	46.3	40	320	382
Vinyl Chloride	**ug/m3**	ND	1,410	8,500	508	46.3	1,930	320	898
Methylene Chloride-[Dichloromethane]	**ug/m3**	ND	3,190	15,600	486	157	2,480	1,090	6,150
1,1,1-Trichloroethane	**ppmv**	50.05	123.76	383.20	32.27	33.19	22.74	9.31	10.08
1,1-Dichloroethane	**ppmv**	1.48	7.17	32.88	1.95	2.00	1.92	0.52	0.55
Chloroethane	**ppmv**	ND	1.21	10.05	0.19	0.19	0.24	0.21	0.72
PCE	**ppmv**	ND	0.07	0.38	0.05	0.00	0.01	0.02	0.09
TCE	**ppmv**	ND	ND	0.32	0.11	0.10	0.14	0.05	0.05
1,1-Dichloroethylene	**ppmv**	ND	0.24	1.94	0.15	0.24	0.13	0.06	0.17
cis-1,2-Dichloroethylene	**ppmv**	ND	ND	0.45	0.12	0.21	0.34	0.08	0.17
trans-1,2-Dichloroethylene	**ppmv**	ND	ND	0.03	0.11	0.01	0.01	0.08	0.10
Vinyl Chloride	**ppmv**	ND	0.55	3.33	0.20	0.02	0.76	0.13	0.35
Methylene Chloride-[Dichloromethane]	**ppmv**	ND	0.92	4.49	0.14	0.05	0.71	0.31	1.77
1,1,1-Trichloroethane	**lb/day**	7.34	18.16	56.213	4.734	4.868	3.335	1.3663	1.4793
1,1-Dichloroethane	**lb/day**	0.16	0.78	3.577	0.212	0.217	0.208	0.0570	0.0597
Chloroethane	**lb/day**	--	0.09	0.713	0.013	0.014	0.017	0.0147	0.0514
PCE	**lb/day**	--	0.01	0.070	0.009	0.001	0.002	0.0036	0.0162
TCE	**lb/day**	--	--	0.046	0.016	0.014	0.020	0.0072	0.0072
1,1-Dichloroethylene	**lb/day**	--	0.03	0.207	0.016	0.026	0.013	0.0059	0.0180
cis-1,2-Dichloroethylene	**lb/day**	--	--	0.048	0.013	0.022	0.036	0.0088	0.0185
trans-1,2-Dichloroethylene	**lb/day**	--	--	0.003	0.011	0.001	0.001	0.0086	0.0103
Vinyl Chloride	**lb/day**	--	0.04	0.229	0.014	0.001	0.052	0.0086	0.0242
Methylene Chloride-[Dichloromethane]	**lb/day**	--	0.09	0.420	0.013	0.004	0.067	0.0293	0.1654
TOTAL	**lb/day**	**7.50**	**19.18**	**61.53**	**5.05**	**5.17**	**3.75**	**1.51**	**1.85**

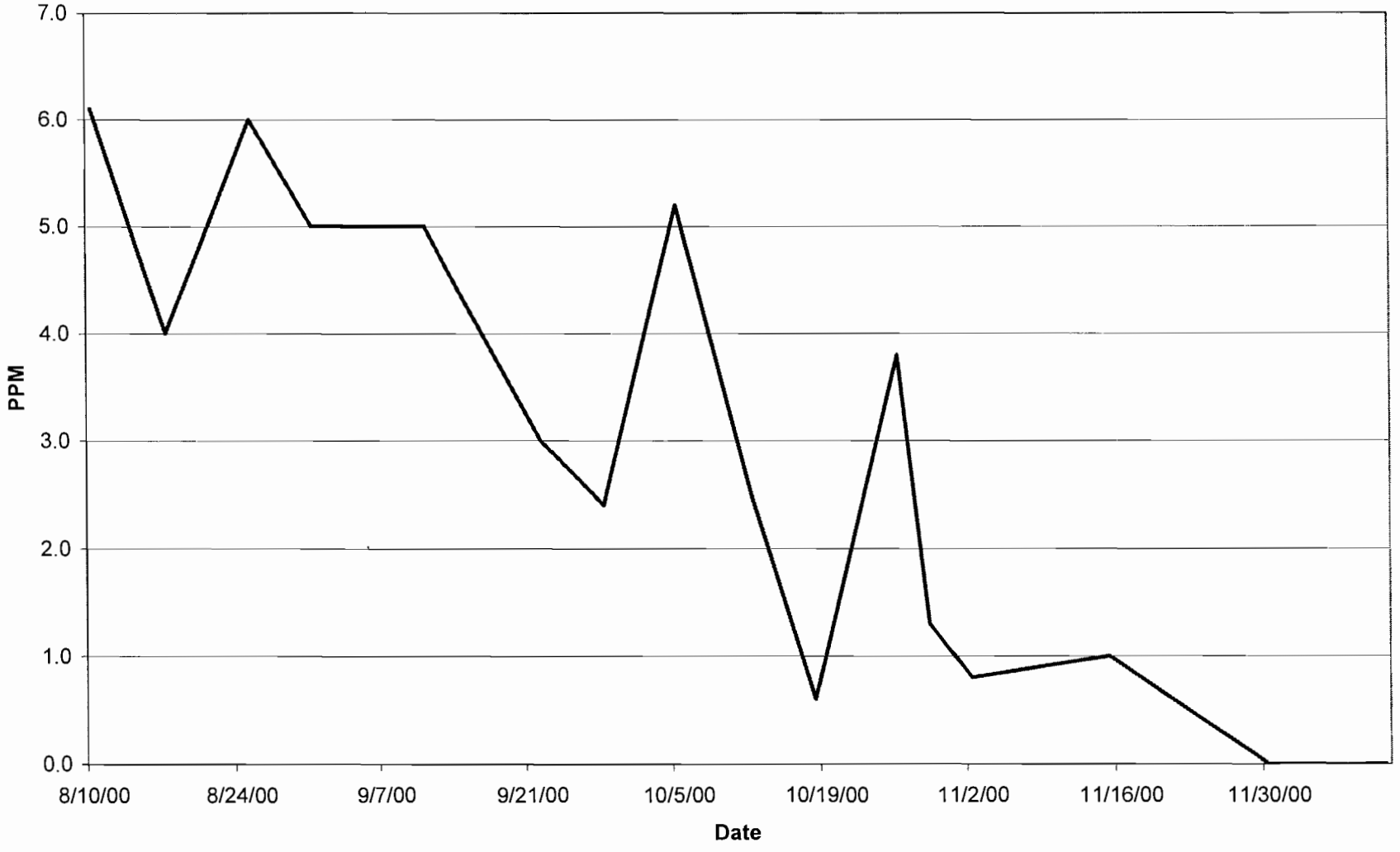
31 SEA CLIFF AVE SVE WEII 1
WEEKLY PID MONITORING RESULTS



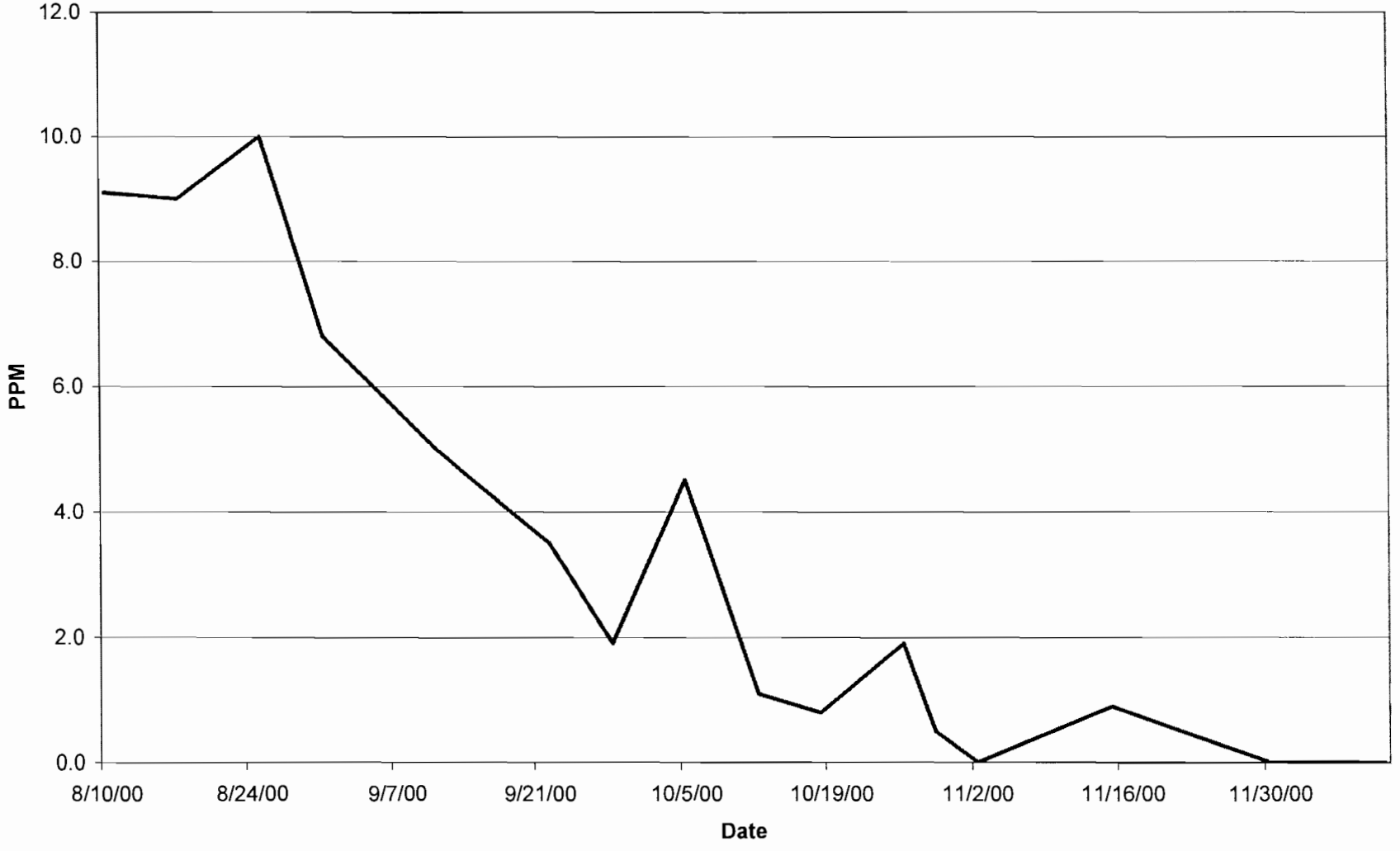
31 SEA CLIFF AVENUE WELL 2
WEEKLY PID MONITORING RESULTS



31 SEA CLIFF AVENUE WELL 3
WEEKLY PID MONITORING RESULTS



31 SEA CLIFF AVENUE WELL 4
WEEKLY PID MONITORING RESULTS



31 SEA CLIFF AVENUE WELL 5
WEEKLY PID MONITORING RESULTS

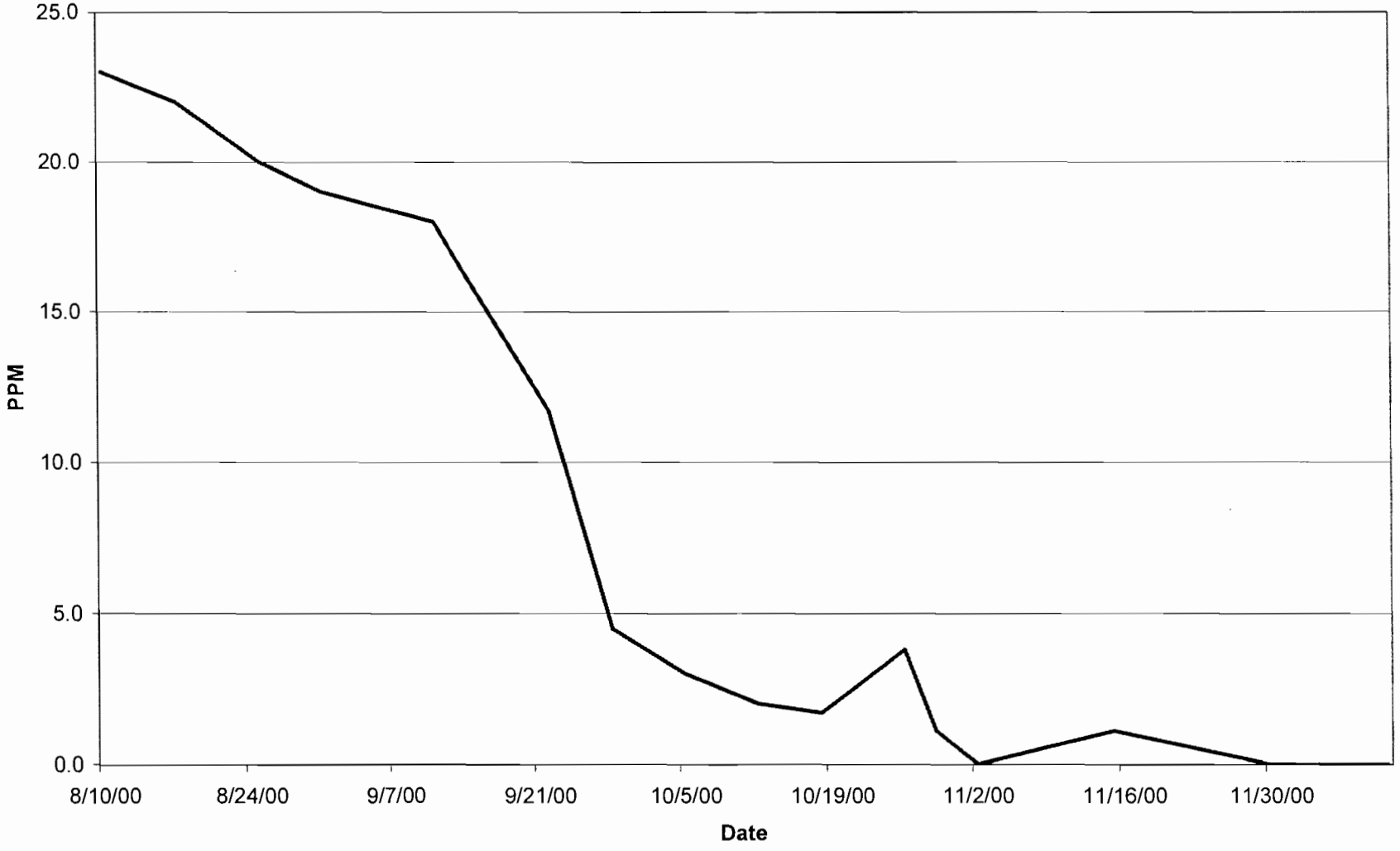


TABLE 2
SVE INLET MONITORING DATA - INLET LOAD CALCULATIONS
45 SEA CLIFF AVENUE

		MONITORING EVENT		
FLOW	**CFM**	**275**	**275**	**275**
PARAMETER	**UNITS**	**11/2/00**	**12/14/00**	**12/20/00**
1,1,1-Trichloroethane	ug/m3	2180	35.6	398
1,1-Dichloroethane	ug/m3	949	34.7	43.9
Chloroethane	ug/m3	1540	33.9	42.8
PCE	ug/m3	591000	46,100.0	35,600
TCE	ug/m3	750	124	144
1,1-Dichloroethylene	ug/m3	618	41.5	52.4
cis-1,2-Dichloroethylene	ug/m3	927	32.2	40.7
trans-1,2-Dichloroethylene	ug/m3	904	28.8	36.4
Vinyl Chloride	ug/m3	904	34.7	43.9
Methylene Chloride-[Dichloromethane]	ug/m3	3110	35.6	44.9
1,1,1-Trichloroethane	ppmv	0.40	0.01	0.07
1,1-Dichloroethane	ppmv	0.23	0.01	0.01
Chloroethane	ppmv	0.58	0.01	0.02
PCE	ppmv	87.15	6.80	5.25
TCE	ppmv	0.14	0.02	0.03
1,1-Dichloroethylene	ppmv	0.16	0.01	0.01
cis-1,2-Dichloroethylene	ppmv	0.23	0.01	0.01
trans-1,2-Dichloroethylene	ppmv	0.23	0.01	0.01
Vinyl Chloride	ppmv	0.35	0.01	0.02
Methylene Chloride-[Dichloromethane]	ppmv	0.90	0.01	0.01
1,1,1-Trichloroethane	lb/day	0.054	0.001	0.010
1,1-Dichloroethane	lb/day	0.023	0.001	0.001
Chloroethane	lb/day	0.038	0.001	0.001
PCE	lb/day	14.571	1.137	0.878
TCE	lb/day	0.018	0.003	0.004
1,1-Dichloroethylene	lb/day	0.015	0.001	0.001
cis-1,2-Dichloroethylene	lb/day	0.023	0.001	0.001
trans-1,2-Dichloroethylene	lb/day	0.022	0.001	0.001
Vinyl Chloride	lb/day	0.022	0.001	0.001
Methylene Chloride-[Dichloromethane]	lb/day	0.077	0.001	0.001
TOTAL	**lb/day**	**14.86**	**1.15**	**0.90**

ATTACHMENT B
BIOREMEDIATION PILOT PROJECT
DECEMBER GROUNDWATER MONITORING
REPORT

Terra Systems
INCORPORATED

February 15, 2001

Matt Gallo
Photocircuits Corporation
31 Sea Cliff Avenue
Glen Cove, NY 11542

RE: Interpretation of Results from Photocircuits Samples from 8/31/00, 10/18/00, and 12/20/00

Dear Matt:

Background
Photocircuits Corporation engaged Terra Systems, Inc. (TSI) to conduct an anaerobic bioremediation pilot study at the company's 31 Sea Cliff Avenue, Glen Cove, NY facility. The study area encompasses an triangular area roughly 70 feet wide and 90 long that had been used for drum storage. The groundwater has been impacted by chlorinated ethene and chlorinated ethane compounds. Eight monitoring points are being utilized to track the progress of the pilot study.

Historical data indicates that anaerobic biodegradation is occurring at the site as evidenced by the presence of daughter products from the breakdown of tetrachloroethene (PCE) and trichloroethene (TCE) including cis-1,2-dichloroethene (cDCE), vinyl chloride (VC), and ethene. 1,1,1-Trichloroethane (1TCA) breaks down to 1,1-dichloroethene (1DCE), trans-1,2-dichloroethene (tDCE), 1,1-dichloroethane (1DCA), chloroethane (CA), and ethane. However, VC and ethene can also be generated from the breakdown of the 1TCA,1DCA, and 1DCE. It appeared that the biological degradation process was limited by the availability of organic carbon.

One of the objectives of the pilot stud is to determine if the addition of a food grade carbon source would enhance the extent and rate of chlorinated solvent biodegradation at the site. TSI formulated an emulsion containing soybean oil, lecithin (a soybean derivative that acts as an emulsifier), and water to provide required organic carbon.

Figure 1 shows the locations of the injection points and monitoring wells at the Photocircuits site. Forty gallons of soybean oil and 117 gallons of water were injected into Point 1 using a Geoprobe and high-pressure pump. The remaining six points received 3,400 gallons of an emulsion of soybean oil, lecithin, and water prepared with a high shear mixer.

Organization of Data
The analytical data from the Photocircuits pilot collected on 8/31/00-9/1/00, 10/18/00-10/19-00, and 12/20/00 is summarized in the following four tables.

Table 1 presents the volatile organic data (VOCs), final biodegradation byproducts (ethene and ethane), important electron acceptors (total iron, sulfate, nitrate, and methane), and electron donor as represented by total organic carbon (TOC).

Table 2 converts the concentrations of the chlorinated ethenes and chlorinated ethanes to micromolar units so that one unit of PCE is equivalent to one unit of TCE, cDCE, VC, and ethene. Similarly one unit of 1TCA is equivalent to one unit of 1DCE, tDCE, 1DCA, CA, or ethane.

Table 3 summarizes the changes between the samples collected immediately after the oil emulsion injection and the samples collected 16 weeks later. Positive changes indicate that the concentrations have decreased. A negative change indicates that the concentrations have increased. In a number of cases, the contaminants were not detected in the post-treatment samples or in the sixteen-week samples. In these cases, the percent change was calculated using the analyte detection limit and the percent changes are designated as greater than (>) the calculated change.

Table 4 summarizes the changes in the chloroethenes, chloroethanes, electron acceptors, and electron donor for each well from the beginning of the pilot in August-September 2000 to December 2000.

Chlorinated Ethene Results

Cis-1,2-DCE and VC were the predominant chlorinated ethenes with little of the parent compounds PCE or TCE being detected. Concentrations greater than 1,000 µg/L of the chlorinated ethenes were initially only detected in SMP-1 and DMP-3. cDCE and VC concentrations increased in MW-7. TCE, cDCE, and VC concentrations increased in SMP-1. The increases may be a result of dissolution of PCE or TCE from a source zone and subsequent biodegradation. While increases in VC are a concern from an increased toxicological risk, we expect that the VC concentrations will decrease as the VC is converted to ethene. VC concentrations have decreased in DMP-1, DMP-3, and SMP-4. Ethene concentrations in November 2000 increased in all wells except SMP-4 from the initial levels observed on 8/31/00-9/1/00. Only well MW-14 showed an increased in the ethene concentrations between 10/18/00 and 12/20/00. However, ethene concentrations in December 2000 were elevated above those seen in September 2000 in wells MW-14, MW-7, SMP-1, and DMP-1. The addition of the soybean oil emulsion has resulted in an increase in daughter products from the chlorinated ethenes in wells MW-7 and SMP-1. Wells DMP-1, DMP-3, and SMP-4 showed decreases in the parent or daughter products.

Chlorinated Ethane Results

Evidence for biodegradation of the chlorinated ethanes was also found. Wells DMP-1, SMP-3, DMP-3, and SMP-4 had the highest initial concentrations of total chlorinated ethanes with greater than 1,000 µg/L. 1TCA was the primary chloroethane contaminant in wells SMP-3 and DMP-3. Reduced products such as 1,1-dichloroethane, chloroethane, and ethane predominated in wells MW-14, MW-7, SMP-1, DMP-1, SMP-4, and DMP-4. Ethane concentrations increased during the sixteen weeks following oil injection in five wells. However, ethane was typically present at low concentrations with a maximum of 4.3 µM in MW-7.

Wells SMP-4 and DMP-4 showed decreases in the 1TCA and 1DCA concentrations and increases in the CA and ethane concentrations over the sixteen weeks following injection of the oil emulsion. Well DMP-1 showed increased concentrations of 1DCA, but a decrease in the CA concentration and no ethane. Decreased concentrations of 1TCA and 1DCA were observed in well SMP-3, but CA was not detected and the ethane levels remained stable. Relatively little change in the chlorinated ethane concentrations were seen in wells MW-14, MW-7, SMP-1, and DMP-3.

Other Organic Compounds Results

Several other organic compounds were detected in the groundwater including 1,2-dichloroethane, acetone, methylene chloride, 2-butanone, toluene, benzene, p-ethyltoluene, 1,3,5-trimethylbenzene, 2-chlorotoluene, 1,2,4-trimethylbenzene, naphthalene, o-xylene, and n-propylbenzene. Over the sixteen weeks of the pilot to date, acetone concentrations decreased by 94% in DMP-1, but increased somewhat (29%) in MW-14. Methylene chloride decreased in all wells with declines by as much as 99 percent in SMP-3 and SMP-4; methylene chloride levels were below the detection limits in wells MW-14, MW-7, SMP-1, SMP-3, DMP-3, and DMP-4 in the December 2000 samples. Methylene chloride can also be anaerobically degraded. Toluene concentrations declined in four wells, but increased in one well (MW-7). Toluene can be also degraded anaerobically. The addition of soybean oil may have little effect on its biodegradation of toluene as dechlorinators are probably not involved in the biotransformation of toluene. 2-Chlorotoluene concentrations declined in all five of the wells in which it was detected.

Substrate Distribution

The total organic carbon concentrations in December 2000 ranged from <0.9 mg/L in SMP-4 to 1990 mg/L in MW-14. Well MW-14 had about five feet of free-floating soybean oil (approximately 4 gallons). Wells MW-14, SMP-1, DMP-1, and DMP-3 contained TOC levels of greater than 80 mg/L, which may represent contact with the emulsion, or the presence of co-contaminants. If subsequent samples from the remaining wells do not show an increase in the TOC as the oil emulsion is degraded, additional substrate injection may be warranted. TOC levels have declined from the beginning of the pilot in wells MW-14 (92%), SMP-1 (4%), DMP-1 (54%), SMP-3 (92%), and SMP-4 (>99%), but increased in MW-7 (-55%), DMP-3 (-6%), and DMP-4 (-16%).

Electron Acceptor Results

As the microbes breakdown the emulsion, we would expect the sulfate to be depleted and the concentrations of iron and methane to increase. The predominant electron acceptor in the groundwater in December was sulfate that ranged from 33 mg/L in MW-14 to 443 mg/L in SMP-1. Sulfate concentrations have declined from the initial concentrations in September in wells MW-14 (99%), DMP-1 (99% from 23,500 to 179 mg/L), SMP-3 (46%), SMP-4 (53%), and DMP-4 (2%) as would be expected with consumption of the oil emulsion. Nitrate-nitrogen was present in December 2000 at low concentrations of 0.023 to 0.53 mg/L. Total iron concentrations in December ranged from 3.1 mg/L in DMPO-1 to 74.3 mg/L in DMP-3, which indicated that iron is also an important electron acceptor. Total iron concentrations have increased in four of the eight wells. During the most recent sampling event, methane was detected in all wells with methanogenic conditions (>1,000 µg/L) in SMP-1 (2,500 µg/L), DMP-

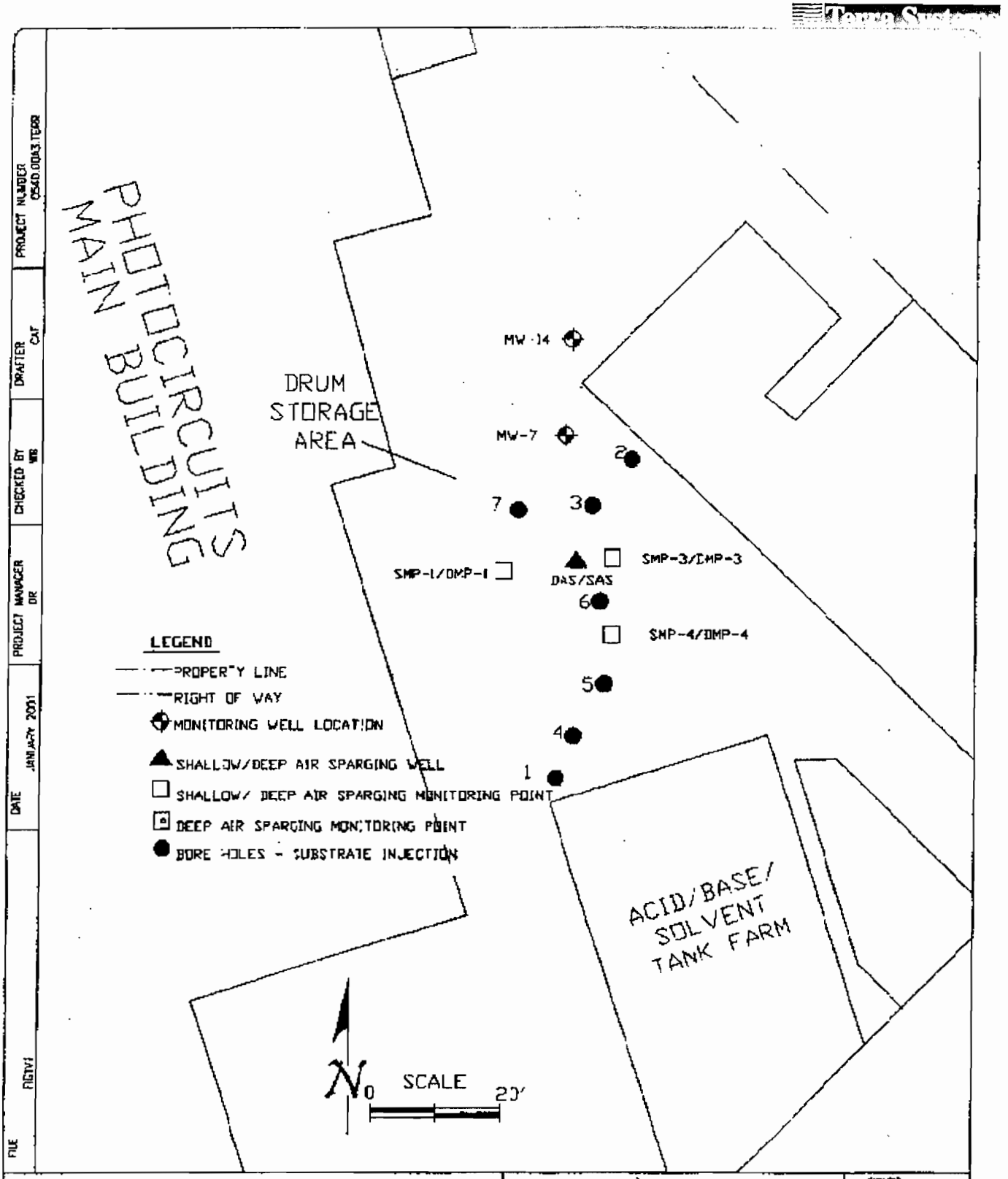
1 (10,300 µg/L), and SMP-4 (1,100 µg/L). Methane concentrations increased in six wells between September 2000 to December 2000.

Summary

In summary, conditions are favorable for accelerated anaerobic biodegradation of the chlorinated solvents at the Photocircuits site based upon the decreases in the parent compound concentrations observed in many wells and the increases in the final daughter products, ethene and ethane, in almost all of the wells. The pilot should be sampled again after five months to see if dechlorination is continuing and to evaluate the need for additional substrate injections. Based upon the positive results we have seen in the zone from 10 to 50 feet below ground surface, we believe that this technology should also be applicable to the intermediate and deeper zones.

Sincerely,
TERRA SYSTEMS, INC.

Michael D. Lee, Ph.D.
Vice-President



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PILOT TEST LOCTION MAP
PHOTOCIRCUITS CORPORATION
GLEN COVE, NEW YORK

FIGURE:
1

Table 1. Photocircuits Anaerobic Pilot Analytical Summary

Well		MW-14			MW-7			SMP-1			DMP-1		
Date		8/31/00	10/19/00	12/20/00	8/31/00	10/19/00	12/20/00	8/31/00	10/18/00	12/20/00	8/31/00	10/18/00	12/20/00
Tetrachloroethene	ug/L		<1.4	<0.40	<0.40	<0.56	<0.40	<16	<0.40	<22	<0.40	<0.080	<0.40
Trichloroethene	ug/L	<0.85	<1.35	<0.85	<0.85	19.3	<0.85	<34	79	860	<0.85	<0.17	<0.85
cis-1,2-Dichloroethene	ug/L	<0.95	<1.7	<0.95	47.3	283	355	24900	37500	30100 E	50.4	1.70	17.4
Vinyl Chloride	ug/L	<1.75	10.6	<1.75	39.3	67.1	139	4710	5990	5090	188	3.5	40
Ethene	ug/L	43	47	60	63	170	110	930	2400	1140	560	1080	920
1,1,1-Trichloroethane	ug/L	14.4	<1.7	8.9	<0.55	<0.62	<0.55	<22	<0.55	<34	<0.55	<0.11	<0.55
1,1-Dichloroethane	ug/L	126	216	293	122	214	268	506	486	628	91.8	17.6	357
trans-1,2-Dichloroethene	ug/L	<1.35	<1.40	<1.35	<1.35	<0.56	<1.35	<54	69.9	<40	<1.35	<0.27	<1.35
1,2-Dichloroethane	ug/L	<0.80	<0.95	<0.80	<0.80	<0.38	<0.80	<32	<0.80	<17	<0.80	<0.16	<0.80
1,1-Dichloroethene	ug/L	<1.05	6.3	<1.05	<1.05	<0.96	<1.05	<42	64.3	<27	<1.05	<0.21	<1.05
Chloroethane	ug/L	15.6	<1.25	<1.65	258	181	201	<72	71.6	<53	3290	43.4	232
Ethane	ug/L	52	69	48	<6	130	81	<6	<6	<25	<6	<6	<50
Acetone	ug/L	97.8	170	126	<9.45	52.2	<9.45	<378	<9.45	<166	8670	139	557
Methylene Chloride	ug/L	15.1	<1.50	<1.0	12.8	6.00	<1	482	43.1	<56	68.3	1.40	22.4
2-Butanone	ug/L	124	75.3	<5.1	<5.1	<1.64	<5.1	<204	<5.1	<68	<5.1	<1.02	5.1
Toluene	ug/L	3.0	<0.80	<0.80	6.2	8.4	8.3	<32	61.1	<19	36.5	2.80	24.1
Benzene	ug/L	<0.70	<0.70	<0.70	4.0	3.5	<0.7	<28	4.40	<34	<0.70	<0.14	5.5
p-Ethyltoluene	ug/L	<1.2	<1.05	<1.2	<1.2	<0.68	<1.2	<48	<1.2	<20	2.9	<0.24	<1.2
1,3,5-Trimethylbenzene	ug/L	<0.60	<1.50	<0..60	<0.60	<0.60	<0.6	<24	<0.60	<20	2.8	<0.12	<0.60
2-Chlorotoluene	ug/L	<0.85	<1.35	<0.85	<0.85	5.2	<0.85	<34	16.3	<25	23.7	<0.17	18.2
1,2,4-Trimethylbenzene	ug/L	<0.65	<1.25	<0.65	<0.65	<0.50	<0.65	<26	<0.65	<0.65	8.4	0.77	8.4
Naphthalene	ug/L	<1.35	<0.90	<1.35	<1.35	<0.36	<1.35	<54	<1.35	<16	3.1	<0.27	<1.35
o-Xylene	ug/L	<0.40	<1.35	<0.40	<0.40	<0.54	<0.4	<16	<0.40	<18	<0.40	<0.080	<0.40
n-Propylbenzene	ug/L	<0.70	<1.40	<0.70	<0.70	<0.56	<0.7	<28	<0.70	<17	<0.70	<0.14	16.9
Sum VOAs	ug/L	490.9	594.2	535.9	552.6	1139.7	1162.3	31528	46786	37818	12995.9	1290.17	2224
Methane	ug/L	44	58	380	660	1900	760	3400	6200	2500	8200	23000	10300
Iron, Total	mg/L	55.2	13.2	69	2.22	1.84	3.93	19.8	11.6	15.1	88.5	4.45	3.1
Sulfate	mg/L	5470	779	32.6	104	117	264	236	360	443	29600	37.7	179
Nitrate-Nitrogen	mg/L		0.15	0.17		<0.015	0.023		0.054	0.071		0.20	0.024
Total Organic Carbon	mg/L	23500	868	1990	38.8	53.1	60	91.7	83.4	88	299	224	137

Table 1 Continued. Photocircuits Anaerobic Pilot Analytical Summary

Well		SMP-3			DMP-3			SMP-4			DMP-4		
Date		9/1/00	10/19/00	12/20/00	9/1/00	10/19/00	12/20/00	9/1/00	10/19/00	12/20/00	9/1/00	10/19/00	12/20/00
Tetrachloroethene	ug/L	<80	<80	<8	<16	60.5	<4.0	13.2	<5.6	<0.80	<0.40	<0.080	<0.080
Trichloroethene	ug/L	<170	<170	<17	<34	<13.5	<8.5	<0.85	<5.4	<1.7	<0.85	<1.70	<0.17
cis-1,2-Dichloroethene	ug/L	<190	<190	<19	<38	<17	<9.5	143	<6.8	<1.9	<0.95	<1.90	<0.19
Vinyl Chloride	ug/L	<350	<350	<35	1040	928	818	175	34.6	37.6	<1.75	<3.50	<0.35
Ethene	ug/L	84	98	39	430	450	310	220	190	220	250	260	220
1,1,1-Trichloroethane	ug/L	178000	235000	32600	19700	14300	23400	3150	246	997	56.3	130	<0.11
1,1-Dichloroethane	ug/L	38200	47800	4770	5230	4860	4200	4070	1740	1180	29.7	20.1	<0.14
trans-1,2-Dichloroethene	ug/L	<270	<270	<27	<54	<14	<13.5	<1.35	<5.6	<2.7	<1.35	<2.70	<0.27
1,2-Dichloroethane	ug/L	<160	<160	<16	<32	<9.5	<8.0	26.2	<3.8	<1.6	<0.80	<1.60	<0.16
1,1-Dichloroethene	ug/L	<210	<210	<21	156	<24	<10.5	105	<9.6	<2.1	<1.05	<2.10	<0.21
Chloroethane	ug/L	<330	<330	<33	5370	6970	3760	1220	827	3000	2420	2580	3300
Ethane	ug/L	39	45	41	5.7	9.4	44	<6	<6	39	<6	<6	37
Acetone	ug/L	<1890	<1890	<189	<378	<65	<94.5	<9.4	<26	<18.9	<9.45	<18.9	<1.89
Methylene Chloride	ug/L	2400	<200	<20	436	149	<10	295	123	<2	22.8	16.6	3.9
2-Butanone	ug/L	<1020	<1020	<102	<204	<41	<51	<5.1	<16.4	<10.2	<5.1	<10.2	<1.02
Toluene	ug/L	<160	<160	<16	232	134	103	116	37.6	25.5	11	7.50	3.1
Benzene	ug/L	<140	<140	<14	<28	<7.0	<7.0	<0.70	<2.8	<1.4	<0.70	<1.40	<0.14
p-Ethyltoluene	ug/L	<240	<240	<24	<48	<17	<12	4.8	<6.8	<2.4	3.7	<2.40	<0.24
1,3,5-Trimethylbenzene	ug/L	<120	<120	<12	<24	<15	<6	3.2	<6.0	<1.2	9.2	<1.20	2.5
2-Chlorotoluene	ug/L	<170	<170	<17	<34	<13.5	<8.5	45.5	<5.4	<1.7	64.5	44.5	17.1
1,2,4-Trimethylbenzene	ug/L	<130	<130	<13	<26	<12.5	<6.5	8.6	<5.0	<1.3	18.3	15.9	5.3
Naphthalene	ug/L	<270	<270	<27	<54	<9.0	<13.5	<1.35	<3.6	<2.7	4.3	<2.70	<0.27
o-Xylene	ug/L	<80	<80	<8	<16	<13.5	<4.0	<0.40	<5.4	<0.8	4.8	<0.80	<0.008
n-Propylbenzene	ug/L	<140	<140	<14	<28	<14.0	<7.0	<0.70	<5.6	<1.4	44.3	<1.40	<0.14
Sum VOAs	ug/L	218723	282943	37450	32599.7	27860.9	32635	9533.4	3198.2	5499.1	2790.2	3014.2	3564
Methane	ug/L	100	140	44	390	890	800	450	470	1100	180	210	190
Iron, Total	mg/L	50.6	5.91	69.6	60.4	66.8	74.3	76.2	38.9	47.1	48.2	39.2	42.5
Sulfate	mg/L	286	392	154	124	186	137	933	470	435	133	171	98.5
Nitrate-Nitrogen	mg/L		<0.015	0.53		0.93	0.35		<0.015	0.31		0.22	0.31
Total Organic Carbon	mg/L	294	432	22.7	98.2	88.6	104	73.6	60.4	<0.94	43.7	52.4	50.9

Table 2. Photocircuits Anaerobic Pilot Chlorinated Solvents in Micromolar Concentrations

Contaminant	Well	MW-14			MW-7			SMP-1			DMP-1		
Date		8/31/00	10/19/00	12/20/00	8/31/00	10/19/00	12/20/00	8/31/00	10/18/00	12/20/00	8/31/00	10/18/00	12/20/00
Tetrachloroethene	uM		<0.0084	<0.0024	<0.0024	<0.0034	<0.0024	<0.096	<0.0024	<0.13	<0.0024	<0.00048	<0.0024
Trichloroethene	uM	<0.0065	<0.010	<0.0065	<0.0065	0.15	<0.0065	<0.026	0.60	6.5	<0.0065	<0.0018	<0.0065
cis-1,2-Dichloroethene	uM	<0.0098	<0.018	<0.0098	0.49	2.9	3.7	257	387	311	0.52	0.018	0.18
Vinyl Chloride	uM	<0.028	0.17	<0.028	0.63	1.1	2.2	75	96	81	3.0	0.056	0.640
Ethene	uM	1.5	1.7	2.1	2.3	6.1	3.9	33	86	41	20	39	33
1,1,1-Trichloroethane	uM	0.11	<0.013	0.067	<0.0041	<0.046	<0.0041	<0.16	<0.0041	<0.25	<0.0041	<0.00082	<0.0041
1,1-Dichloroethane	uM	1.3	2.2	3.0	1.2	2.2	2.7	5.1	4.9	6.3	0.93	0.18	3.61
trans-1,2-Dichloroethene	uM	<0.014	<0.014	<0.014	<0.014	<0.0058	<0.014	<0.56	0.72	<0.41	<0.014	<0.0028	<0.014
1,2-Dichloroethane	uM	<0.0081	<0.0096	<0.0081	<0.0081	<0.0038	<0.0081	<0.32	<0.0081	<0.17	<0.0081	<0.0016	<0.0081
1,1-Dichloroethene	uM	<0.011	0.065	<0.011	<0.011	<0.0099	<0.011	<0.43	0.66	<0.27	<0.011	<0.0022	<0.011
Chloroethane	uM	0.24	<0.019	<0.026	4.0	2.8	3.1	<1.1	1.1	<0.82	51.0	0.67	3.60
Ethane	uM	1.7	2.3	1.6	<0.20	4.3	2.7	<0.20	<0.20	<0.83	<0.20	<0.20	<1.7

Contaminant	Well	SMP-3			DMP-3			SMP-4			DMP-4		
Date		9/1/00	10/19/00	12/20/00	9/1/00	10/19/00	12/20/00	9/1/00	10/19/00	12/20/00	9/1/00	10/19/00	12/20/00
Tetrachloroethene	uM	<0.48	<0.48	<0.048	<0.097	0.36	<0.024	0.080	<0.0034	<0.0048	<0.0024	<0.00048	<0.00048
Trichloroethene	uM	<1.3	<1.3	<0.13	<0.26	<0.10	<0.065	<0.0065	<0.041	<0.013	<0.0065	<0.013	<0.013
cis-1,2-Dichloroethene	uM	<2.0	<2.0	<0.20	<0.39	<0.18	<0.098	1.5	<0.070	<0.0020	<0.0098	<0.020	<0.0020
Vinyl Chloride	uM	<5.6	<5.6	<0.56	17	15	13	2.8	0.55	0.60	<0.028	<0.056	<0.0056
Ethene	uM	3.0	3.5	1.4	15.4	16.1	11.1	7.9	6.8	7.9	8.9	9.3	7.9
1,1,1-Trichloroethane	uM	1334	1762	244	148	107	175	24	1.8	7.5	0.42	0.97	<0.00082
1,1-Dichloroethane	uM	386	483	48	53	49	42	41	18	12	0.30	0.20	<0.0014
trans-1,2-Dichloroethene	uM	<2.8	<2.8	<0.28	<0.56	<0.14	<0.14	<0.014	<0.058	<0.0028	<0.014	<0.028	<0.0028
1,2-Dichloroethane	uM	<1.6	<1.6	<0.16	<0.32	<0.096	<0.081	0.26	<0.038	<0.016	<0.0081	<0.016	<0.0016
1,1-Dichloroethene	uM	<2.2	<2.2	<0.22	1.6	<0.25	<0.11	1.1	<0.099	<0.022	<0.011	<0.022	<0.0022
Chloroethane	uM	<5.1	<5.1	<0.51	83	108	58	19	13	47	38	40	51
Ethane	uM	1.3	1.5	1.4	0.19	0.31	1.5	<0.20	<0.20	1.3	<0.20	<0.20	1.2

Table 3. Photocircuits Anaerobic Pilot Percent Change Between 9/1/00 and 12/20/00

Compound	MW-14	MW-7	SMP-1	DMP-1	SMP-3	DMP-3	SMP-4	DMP-4
Acetone	-29			94				
Methylene Chloride	>93	>92	>88	67	>99	>98	>99	83
Toluene	>73	-34		34			78	73
2-Chlorotoluene				23			>96	73
Sum VOA	-9	-110	-20	83	83	0	42	-28
Methane	-764	-15	26	-26	56	-105	-144	-6
Iron	-25	-77	24	96	-38	-23	38	12
Sulfate	99	-154	-88	99	46	-10	53	26
TOC	92	-55	4	54	92	-6	>99	-16
PCE							>94	
TCE			>-2429					
cDCE		-651	-21	65			>99	
VC		-254	-8	79		21	79	
Ethene	-40	-75	-23	-64	54	28	0	12
1TCA	38				82	-19	68	>99
1DCA	-133	-120	-24	-289	88	20	71	>99
1DCE						>93	>98	
CA	>89	22		93		30	-146	-36
Ethane	8	>1250			-5	-672	>-550	>-517

Explanations
- Concentration Increased
+ Concentration Decreased
> Compound Below Detection Limit; % Change Calculated Using Detection Limit for Missing Value

Table 4. Summary of Changes in Concentrations of Chloroethenes, Chloroethanes, Electron Acceptors, and Electron Donor by Well

Well	Chloroethene Dechlorination	Chloroethanes	Electron Acceptors	Electron Donor Availability
MW-14	No CE except ethene	1TCA and CA down, 1DCA increased, ethane down	Sulfate decreased by 99%, methane and iron up	TOC availability good
MW-7	cDCE, VC, ethene up	1DCA up, CA down, ethane produced	Sulfate increasing, methane and iron up slightly	TOC increasing
SMP-1	TCE, cDCE, VC, ethene up	1,1-DCA up, little CA or ethane	Sulfate increasing, methane and iron decreasing,	TOC stable, sufficient
DMP-1	cDCE and VC down, ethene up	1,1-DCA up, CA down, no ethane	Sulfate down 99%, methane up	TOC decreasing, sufficient
SMP-3	No CE except ethene	1TCA and 1DCA down, no CA and little ethane	Sulfate decreasing, methane decreasing, iron increasing	TOC decreasing, lower than optimal
DMP-3	VC and ethene down	1TCA up, 1DCA, 1DCE and CA down, little ethane	Sulfate, iron, and methane increasing	TOC increasing, sufficient
SMP-4	PCE, cDCE, VC down, ethene stable	1TCA,1DCA, and 1DCE down, CA and ethane up	Sulfate and iron down, methane up	TOC decreasing, too low
DMP-4	No CE except ethene	1TCA and 1DCA down, CA and ethane up	Sulfate and iron down, methane stable	TOC stable, sufficient

ATTACHMENT C
BIOREMEDIATION PILOT STUDY
GROUNDWATER MONITORING LABORATORY
REPORTS

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

9/15/20

Custody Document: J7248

Received: 9/1/2000 16:00
Sampled by: D. Raymond

Client: Photo Circuits

31 Sea Cliff Avenue
Glen Cove,
NY 11542

Project: Photocircuits Corp.

31 Sea Cliff Avenue
Glen Cove,
NY

Manager: Matt Gallo/C Nehrig

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

9/15/20

EPA 8260B

Sample: J7248-1

Client Sample ID: MW-14 Collected: 8/31/2000 14:20

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 9/7/2000

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.50	2.50	ppb	U
75-45-6	Chlorodifluoromethane	3.90	3.90	ppb	U
74-87-3	Chloromethane	1.80	1.80	ppb	U
75-01-4	Vinyl Chloride	1.75	1.75	ppb	U
74-83-9	Bromomethane	1.25	1.25	ppb	U
75-00-3	Chloroethane	1.65	**15.6**	ppb	
75-69-4	Trichlorofluoromethane	1.40	1.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.35	2.35	ppb	U
75-35-4	1,1-Dichloroethene	1.05	1.05	ppb	U
67-64-1	Acetone	9.45	**97.8**	ppb	
75-15-0	Carbon disulfide	0.75	0.75	ppb	U
75-09-2	Methylene Chloride	1.00	**15.1**	ppb	
156-60-5	t-1,2-Dichloroethene	1.35	1.35	ppb	U
1634-04-4	Methyl t-butyl ether	1.25	1.25	ppb	U
75-34-3	1,1-Dichloroethane	0.70	**126**	ppb	
590-20-7	2,2-Dichloropropane	1.40	1.40	ppb	U
156-59-2	c-1,2-Dichloroethene	0.95	0.95	ppb	U
78-93-3	2-Butanone	5.10	**124**	ppb	
74-97-5	Bromochloromethane	0.70	0.70	ppb	U
67-66-3	Chloroform	0.65	0.65	ppb	U
71-55-6	1,1,1-Trichloroethane	0.55	**14.4**	ppb	
56-23-5	Carbon Tetrachloride	0.90	0.90	ppb	U
563-58-6	1,1-Dichloropropene	2.50	2.50	ppb	U
71-43-2	Benzene	0.70	0.70	ppb	U
107-06-2	1,2-Dichloroethane	0.80	0.80	ppb	U
79-01-6	Trichloroethene	0.85	0.85	ppb	U
78-87-5	1,2-Dichloropropane	0.80	0.80	ppb	U
74-95-3	Dibromomethane	1.05	1.05	ppb	U
75-27-4	Bromodichloromethane	0.90	0.90	ppb	U
110-75-8	2-Chloroethylvinylether	1.55	1.55	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.90	0.90	ppb	U
108-10-1	4-Methyl-2-pentanone	2.55	2.55	ppb	U
108-88-3	Toluene	0.80	**3.00**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.90	0.90	ppb	U
79-00-5	1,1,2-Trichloroethane	1.55	1.55	ppb	U

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9/14/00

EPA 8260B

Sample: J7248-1...continue

Client Sample ID: MW-14
Matrix: Liquid
Remarks: See Case Narrative

Type: Grab

Collected: 8/31/00 14:20

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
591-78-6	2-Hexanone	4.45	4.45	ppb	U
124-48-1	Dibromochloromethane	0.40	0.40	ppb	U
106-93-4	1,2-Dibromoethane	0.75	0.75	ppb	U
108-90-7	Chlorobenzene	0.35	0.35	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.70	0.70	ppb	U
100-41-4	Ethylbenzene	0.85	0.85	ppb	U
108-38-3	m,p-xylene	0.85	0.85	ppb	U
95-47-6	o-xylene	0.40	0.40	ppb	U
100-42-5	Styrene	0.40	0.40	ppb	U
75-25-2	Bromoform	0.60	0.60	ppb	U
98-82-8	Isopropylbenzene	0.50	0.50	ppb	U
108-86-1	Bromobenzene	0.50	0.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.65	0.65	ppb	U
103-65-1	n-Propylbenzene	0.70	0.70	ppb	U
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.20	1.20	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.60	0.60	ppb	U
95-49-8	2-Chlorotoluene	0.85	0.85	ppb	U
106-43-4	4-Chlorotoluene	0.80	0.80	ppb	U
98-06-6	tert-Butylbenzene	0.65	0.65	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.65	0.65	ppb	U
135-98-8	sec-Butylbenzene	0.20	0.20	ppb	U
99-87-6	4-Isopropyltoluene	0.50	0.50	ppb	U
541-73-1	1,3-Dichlorobenzene	0.50	0.50	ppb	U
106-46-7	1,4-Dichlorobenzene	0.75	0.75	ppb	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	ppb	U
105-05-5	p-Diethylbenzene	1.35	1.35	ppb	U
104-51-8	n-Butylbenzene	0.70	0.70	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	1.35	1.35	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.50	2.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.25	1.25	ppb	U
87-68-3	Hexachlorobutadiene	1.20	1.20	ppb	U
91-20-3	Naphthalene	1.35	1.35	ppb	U
87-61-6	1,2,3-Trichlorobenzene	1.90	1.90	ppb	U

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9/14/00

EPA 8260B

Sample: J7248-2

Client Sample ID: MW-7 Collected: 8/31/00 14:50

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.50	2.50	ppb	U
75-45-6	Chlorodifluoromethane	3.90	3.90	ppb	U
74-87-3	Chloromethane	1.80	1.80	ppb	U
75-01-4	Vinyl Chloride	1.75	**39.3**	ppb	
74-83-9	Bromomethane	1.25	1.25	ppb	U
75-00-3	Chloroethane	1.65	**258**	ppb	
75-69-4	Trichlorofluoromethane	1.40	1.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.35	2.35	ppb	U
75-35-4	1,1-Dichloroethene	1.05	1.05	ppb	U
67-64-1	Acetone	9.45	9.45	ppb	U
75-15-0	Carbon disulfide	0.75	0.75	ppb	U
75-09-2	Methylene Chloride	1.00	**12.8**	ppb	
156-60-5	t-1,2-Dichloroethene	1.35	1.35	ppb	U
1634-04-4	Methyl t-butyl ether	1.25	1.25	ppb	U
75-34-3	1,1-Dichloroethane	0.70	**122**	ppb	
590-20-7	2,2-Dichloropropane	1.40	1.40	ppb	U
156-59-2	c-1,2-Dichloroethene	0.95	**47.3**	ppb	
78-93-3	2-Butanone	5.10	5.10	ppb	U
74-97-5	Bromochloromethane	0.70	0.70	ppb	U
67-66-3	Chloroform	0.65	0.65	ppb	U
71-55-6	1,1,1-Trichloroethane	0.55	0.55	ppb	U
56-23-5	Carbon Tetrachloride	0.90	0.90	ppb	U
563-58-6	1,1-Dichloropropene	2.50	2.50	ppb	U
71-43-2	Benzene	0.70	**4.00**	ppb	
107-06-2	1,2-Dichloroethane	0.80	0.80	ppb	U
79-01-6	Trichloroethene	0.85	0.85	ppb	U
78-87-5	1,2-Dichloropropane	0.80	0.80	ppb	U
74-95-3	Dibromomethane	1.05	1.05	ppb	U
75-27-4	Bromodichloromethane	0.90	0.90	ppb	U
110-75-8	2-Chloroethylvinylether	1.55	1.55	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.90	0.90	ppb	U
108-10-1	4-Methyl-2-pentanone	2.55	2.55	ppb	U
108-88-3	Toluene	0.80	**6.20**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.90	0.90	ppb	U
79-00-5	1,1,2-Trichloroethane	1.55	1.55	ppb	U
127-18-4	Tetrachloroethene	0.40	0.40	ppb	U
142-28-9	1,3-Dichloropropane	1.05	1.05	ppb	U

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9/14/00

EPA 8260B

Sample: J7248-2...continue

Client Sample ID: MW-7
Matrix: Liquid
Remarks: See Case Narrative

Type: Grab

Collected: 8/31/00 14:50

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
591-78-6	2-Hexanone	4.45	4.45	ppb	U
124-48-1	Dibromochloromethane	0.40	0.40	ppb	U
106-93-4	1,2-Dibromoethane	0.75	0.75	ppb	U
108-90-7	Chlorobenzene	0.35	0.35	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.70	0.70	ppb	U
100-41-4	Ethylbenzene	0.85	0.85	ppb	U
108-38-3	m,p-xylene	0.85	0.85	ppb	U
95-47-6	o-xylene	0.40	0.40	ppb	U
100-42-5	Styrene	0.40	0.40	ppb	U
75-25-2	Bromoform	0.60	0.60	ppb	U
98-82-8	Isopropylbenzene	0.50	0.50	ppb	U
108-86-1	Bromobenzene	0.50	0.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.65	0.65	ppb	U
103-65-1	n-Propylbenzene	0.70	0.70	ppb	U
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.20	1.20	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.60	0.60	ppb	U
95-49-8	2-Chlorotoluene	0.85	0.85	ppb	U
106-43-4	4-Chlorotoluene	0.80	0.80	ppb	U
98-06-6	tert-Butylbenzene	0.65	0.65	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.65	0.65	ppb	U
135-98-8	sec-Butylbenzene	0.20	0.20	ppb	U
99-87-6	4-Isopropyltoluene	0.50	0.50	ppb	U
541-73-1	1,3-Dichlorobenzene	0.50	0.50	ppb	U
106-46-7	1,4-Dichlorobenzene	0.75	0.75	ppb	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	ppb	U
105-05-5	p-Diethylbenzene	1.35	1.35	ppb	U
104-51-8	n-Butylbenzene	0.70	0.70	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	1.35	1.35	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.50	2.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.25	1.25	ppb	U
87-68-3	Hexachlorobutadiene	1.20	1.20	ppb	U
91-20-3	Naphthalene	1.35	1.35	ppb	U
87-61-6	1,2,3-Trichlorobenzene	1.90	1.90	ppb	U

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9/14/00

EPA 8260B

Sample: J7248-3
Client Sample ID: SMP-1
Matrix: Liquid
Remarks: See Case Narrative

Type: Grab

Collected: 8/31/00 16:10

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	100	100	ppb	U
75-45-6	Chlorodifluoromethane	156	156	ppb	U
74-87-3	Chloromethane	72.0	72.0	ppb	U
75-01-4	Vinyl Chloride	70.0	**4710**	ppb	
74-83-9	Bromomethane	50.0	50.0	ppb	U
75-00-3	Chloroethane	66.0	66.0	ppb	U
75-69-4	Trichlorofluoromethane	56.0	56.0	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	94.0	94.0	ppb	U
75-35-4	1,1-Dichloroethene	42.0	42.0	ppb	U
67-64-1	Acetone	378	378	ppb	U
75-15-0	Carbon disulfide	30.0	30.0	ppb	U
75-09-2	Methylene Chloride	40.0	**482**	ppb	
156-60-5	t-1,2-Dichloroethene	54.0	54.0	ppb	U
1634-04-4	Methyl t-butyl ether	50.0	50.0	ppb	U
75-34-3	1,1-Dichloroethane	28.0	**506**	ppb	
590-20-7	2,2-Dichloropropane	56.0	56.0	ppb	U
156-59-2	c-1,2-Dichloroethene	38.0	**24900**	ppb	
78-93-3	2-Butanone	204	204	ppb	U
74-97-5	Bromochloromethane	28.0	28.0	ppb	U
67-66-3	Chloroform	26.0	26.0	ppb	U
71-55-6	1,1,1-Trichloroethane	22.0	22.0	ppb	U
56-23-5	Carbon Tetrachloride	36.0	36.0	ppb	U
563-58-6	1,1-Dichloropropene	100	100	ppb	U
71-43-2	Benzene	28.0	28.0	ppb	U
107-06-2	1,2-Dichloroethane	32.0	32.0	ppb	U
79-01-6	Trichloroethene	34.0	34.0	ppb	U
78-87-5	1,2-Dichloropropane	32.0	32.0	ppb	U
74-95-3	Dibromomethane	42.0	42.0	ppb	U
75-27-4	Bromodichloromethane	36.0	36.0	ppb	U
110-75-8	2-Chloroethylvinylether	62.0	62.0	ppb	U
10061-01-5	c-1,3-Dichloropropene	36.0	36.0	ppb	U
108-10-1	4-Methyl-2-pentanone	102	102	ppb	U
108-88-3	Toluene	32.0	32.0	ppb	U
10061-02-6	t-1,3-Dichloropropene	36.0	36.0	ppb	U
79-00-5	1,1,2-Trichloroethane	62.0	62.0	ppb	U
127-18-4	Tetrachloroethene	16.0	16.0	ppb	U
142-28-9	1,3-Dichloropropane	42.0	42.0	ppb	U

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[illegible] 105, Farmingdale NY 11735
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9/14/00

EPA 8260B

Sample: J7248-3...continue

Client Sample ID: SMP-1 Collected: 8/31/00 16:10
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
591-78-6	2-Hexanone	178	178	ppb	U
124-48-1	Dibromochloromethane	16.0	16.0	ppb	U
106-93-4	1,2-Dibromoethane	30.0	30.0	ppb	U
108-90-7	Chlorobenzene	14.0	14.0	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	28.0	28.0	ppb	U
100-41-4	Ethylbenzene	34.0	34.0	ppb	U
108-38-3	m,p-xylene	34.0	34.0	ppb	U
95-47-6	o-xylene	16.0	16.0	ppb	U
100-42-5	Styrene	16.0	16.0	ppb	U
75-25-2	Bromoform	24.0	24.0	ppb	U
98-82-8	Isopropylbenzene	20.0	20.0	ppb	U
108-86-1	Bromobenzene	20.0	20.0	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	26.0	26.0	ppb	U
103-65-1	n-Propylbenzene	28.0	28.0	ppb	U
96-18-4	1,2,3-Trichloropropane	88.0	88.0	ppb	U
622-96-8	p-Ethyltoluene	48.0	48.0	ppb	U
108-67-8	1,3,5-Trimethylbenzene	24.0	24.0	ppb	U
95-49-8	2-Chlorotoluene	34.0	34.0	ppb	U
106-43-4	4-Chlorotoluene	32.0	32.0	ppb	U
98-06-6	tert-Butylbenzene	26.0	26.0	ppb	U
95-63-6	1,2,4-Trimethylbenzene	26.0	26.0	ppb	U
135-98-8	sec-Butylbenzene	8.00	8.00	ppb	U
99-87-6	4-Isopropyltoluene	20.0	20.0	ppb	U
541-73-1	1,3-Dichlorobenzene	20.0	20.0	ppb	U
106-46-7	1,4-Dichlorobenzene	30.0	30.0	ppb	U
95-50-1	1,2-Dichlorobenzene	26.0	26.0	ppb	U
105-05-5	p-Diethylbenzene	54.0	54.0	ppb	U
104-51-8	n-Butylbenzene	28.0	28.0	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	54.0	54.0	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	100	100	ppb	U
120-82-1	1,2,4-Trichlorobenzene	50.0	50.0	ppb	U
87-68-3	Hexachlorobutadiene	48.0	48.0	ppb	U
91-20-3	Naphthalene	54.0	54.0	ppb	U
87-61-6	1,2,3-Trichlorobenzene	76.0	76.0	ppb	U

Environmental Testing Laboratories, Inc.
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9/14/00

EPA 8260B

Sample: J7248-4

Client Sample ID: DMP-1 Collected: 8/31/00 16:50
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.50	2.50	ppb	U
75-45-6	Chlorodifluoromethane	3.90	3.90	ppb	U
74-87-3	Chloromethane	1.80	1.80	ppb	U
75-01-4	Vinyl Chloride	1.75	**188**	ppb	
74-83-9	Bromomethane	1.25	1.25	ppb	U
75-00-3	Chloroethane	41.3	**3290**	ppb	
75-69-4	Trichlorofluoromethane	1.40	1.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.35	2.35	ppb	U
75-35-4	1,1-Dichloroethene	1.05	1.05	ppb	U
67-64-1	Acetone	236	**8670**	ppb	
75-15-0	Carbon disulfide	0.75	0.75	ppb	U
75-09-2	Methylene Chloride	1.00	**68.3**	ppb	
156-60-5	t-1,2-Dichloroethene	1.35	1.35	ppb	U
1634-04-4	Methyl t-butyl ether	1.25	1.25	ppb	U
75-34-3	1,1-Dichloroethane	0.70	**91.8**	ppb	
590-20-7	2,2-Dichloropropane	1.40	1.40	ppb	U
156-59-2	c-1,2-Dichloroethene	0.95	**50.4**	ppb	
78-93-3	2-Butanone	5.10	5.10	ppb	U
74-97-5	Bromochloromethane	0.70	0.70	ppb	U
67-66-3	Chloroform	0.65	0.65	ppb	U
71-55-6	1,1,1-Trichloroethane	0.55	0.55	ppb	U
56-23-5	Carbon Tetrachloride	0.90	0.90	ppb	U
563-58-6	1,1-Dichloropropene	2.50	2.50	ppb	U
71-43-2	Benzene	0.70	0.70	ppb	U
107-06-2	1,2-Dichloroethane	0.80	0.80	ppb	U
79-01-6	Trichloroethene	0.85	0.85	ppb	U
78-87-5	1,2-Dichloropropane	0.80	0.80	ppb	U
74-95-3	Dibromomethane	1.05	1.05	ppb	U
75-27-4	Bromodichloromethane	0.90	0.90	ppb	U
110-75-8	2-Chloroethylvinylether	1.55	1.55	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.90	0.90	ppb	U
108-10-1	4-Methyl-2-pentanone	2.55	2.55	ppb	U
108-88-3	Toluene	0.80	**36.5**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.90	0.90	ppb	U
79-00-5	1,1,2-Trichloroethane	1.55	1.55	ppb	U
127-18-4	Tetrachloroethene	0.40	0.40	ppb	U
142-28-9	1,3-Dichloropropane	1.05	1.05	ppb	U

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9/14/00

EPA 8260B

Sample: J7248-4...continue

Client Sample ID: DMP-1 Collected: 8/31/00 16:50
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
591-78-6	2-Hexanone	4.45	4.45	ppb	U
124-48-1	Dibromochloromethane	0.40	0.40	ppb	U
106-93-4	1,2-Dibromoethane	0.75	0.75	ppb	U
108-90-7	Chlorobenzene	0.35	0.35	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.70	0.70	ppb	U
100-41-4	Ethylbenzene	0.85	0.85	ppb	U
108-38-3	m,p-xylene	0.85	0.85	ppb	U
95-47-6	o-xylene	0.40	0.40	ppb	U
100-42-5	Styrene	0.40	0.40	ppb	U
75-25-2	Bromoform	0.60	0.60	ppb	U
98-82-8	Isopropylbenzene	0.50	0.50	ppb	U
108-86-1	Bromobenzene	0.50	0.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.65	0.65	ppb	U
103-65-1	n-Propylbenzene	0.70	0.70	ppb	U
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.20	**2.90**	ppb	
108-67-8	1,3,5-Trimethylbenzene	0.60	**2.80**	ppb	
95-49-8	2-Chlorotoluene	0.85	**23.7**	ppb	
106-43-4	4-Chlorotoluene	0.80	0.80	ppb	U
98-06-6	tert-Butylbenzene	0.65	0.65	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.65	**8.40**	ppb	
135-98-8	sec-Butylbenzene	0.20	0.20	ppb	U
99-87-6	4-Isopropyltoluene	0.50	0.50	ppb	U
541-73-1	1,3-Dichlorobenzene	0.50	0.50	ppb	U
106-46-7	1,4-Dichlorobenzene	0.75	0.75	ppb	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	ppb	U
105-05-5	p-Diethylbenzene	1.35	1.35	ppb	U
104-51-8	n-Butylbenzene	0.70	0.70	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	1.35	1.35	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.50	2.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.25	1.25	ppb	U
87-68-3	Hexachlorobutadiene	1.20	1.20	ppb	U
91-20-3	Naphthalene	1.35	**3.10**	ppb	
87-61-6	1,2,3-Trichlorobenzene	1.90	1.90	ppb	U

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9/14/00

EPA 8260B

Sample: J7248-5

Client Sample ID: SMP-3 Collected: 9/1/00 09:10
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/6/00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	500	500	ppb	U
75-45-6	Chlorodifluoromethane	780	780	ppb	U
74-87-3	Chloromethane	360	360	ppb	U
75-01-4	Vinyl Chloride	350	350	ppb	U
74-83-9	Bromomethane	250	250	ppb	U
75-00-3	Chloroethane	330	330	ppb	U
75-69-4	Trichlorofluoromethane	280	280	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	470	470	ppb	U
75-35-4	1,1-Dichloroethene	210	210	ppb	U
67-64-1	Acetone	1890	1890	ppb	U
75-15-0	Carbon disulfide	150	150	ppb	U
75-09-2	Methylene Chloride	200	**2400**	ppb	
156-60-5	t-1,2-Dichloroethene	270	270	ppb	U
1634-04-4	Methyl t-butyl ether	250	250	ppb	U
75-34-3	1,1-Dichloroethane	140	**38200**	ppb	
590-20-7	2,2-Dichloropropane	280	280	ppb	U
156-59-2	c-1,2-Dichloroethene	190	190	ppb	U
78-93-3	2-Butanone	1020	1020	ppb	U
74-97-5	Bromochloromethane	140	140	ppb	U
67-66-3	Chloroform	130	130	ppb	U
71-55-6	1,1,1-Trichloroethane	3100	**178000**	ppb	
56-23-5	Carbon Tetrachloride	180	180	ppb	U
563-58-6	1,1-Dichloropropene	500	500	ppb	U
71-43-2	Benzene	140	140	ppb	U
107-06-2	1,2-Dichloroethane	160	160	ppb	U
79-01-6	Trichloroethene	170	170	ppb	U
78-87-5	1,2-Dichloropropane	160	160	ppb	U
74-95-3	Dibromomethane	210	210	ppb	U
75-27-4	Bromodichloromethane	180	180	ppb	U
110-75-8	2-Chloroethylvinylether	310	310	ppb	U
10061-01-5	c-1,3-Dichloropropene	180	180	ppb	U
108-10-1	4-Methyl-2-pentanone	510	510	ppb	U
108-88-3	Toluene	160	160	ppb	U
10061-02-6	t-1,3-Dichloropropene	180	180	ppb	U
79-00-5	1,1,2-Trichloroethane	310	310	ppb	U
127-18-4	Tetrachloroethene	80.0	80.0	ppb	U
142-28-9	1,3-Dichloropropane	210	210	ppb	U

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EPA 8260B

Sample: J7248-5...continue

Client Sample ID: SMP-3 Collected: 9/1/00 09:10
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/6/00

Cas No	Analyte	MDL	Concentration	Units	Q
591-78-6	2-Hexanone	890	890	ppb	U
124-48-1	Dibromochloromethane	80.0	80.0	ppb	U
106-93-4	1,2-Dibromoethane	150	150	ppb	U
108-90-7	Chlorobenzene	70.0	70.0	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	140	140	ppb	U
100-41-4	Ethylbenzene	170	170	ppb	U
108-38-3	m,p-xylene	170	170	ppb	U
95-47-6	o-xylene	80.0	80.0	ppb	U
100-42-5	Styrene	80.0	80.0	ppb	U
75-25-2	Bromoform	120	120	ppb	U
98-82-8	Isopropylbenzene	100	100	ppb	U
108-86-1	Bromobenzene	100	100	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	130	130	ppb	U
103-65-1	n-Propylbenzene	140	140	ppb	U
96-18-4	1,2,3-Trichloropropane	440	440	ppb	U
622-96-8	p-Ethyltoluene	240	240	ppb	U
108-67-8	1,3,5-Trimethylbenzene	120	120	ppb	U
95-49-8	2-Chlorotoluene	170	170	ppb	U
106-43-4	4-Chlorotoluene	160	160	ppb	U
98-06-6	tert-Butylbenzene	130	130	ppb	U
95-63-6	1,2,4-Trimethylbenzene	130	130	ppb	U
135-98-8	sec-Butylbenzene	40.0	40.0	ppb	U
99-87-6	4-Isopropyltoluene	100	100	ppb	U
541-73-1	1,3-Dichlorobenzene	100	100	ppb	U
106-46-7	1,4-Dichlorobenzene	150	150	ppb	U
95-50-1	1,2-Dichlorobenzene	130	130	ppb	U
105-05-5	p-Diethylbenzene	270	270	ppb	U
104-51-8	n-Butylbenzene	140	140	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	270	270	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	500	500	ppb	U
120-82-1	1,2,4-Trichlorobenzene	250	250	ppb	U
87-68-3	Hexachlorobutadiene	240	240	ppb	U
91-20-3	Naphthalene	270	270	ppb	U
87-61-6	1,2,3-Trichlorobenzene	380	380	ppb	U

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9/14/00

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Sample: J7248-6
Client Sample ID: DMP-3 Collected: 9/1/00 09:30
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	100	100	ppb	U
75-45-6	Chlorodifluoromethane	156	156	ppb	U
74-87-3	Chloromethane	72.0	72.0	ppb	U
75-01-4	Vinyl Chloride	70.0	**1040**	ppb	
74-83-9	Bromomethane	50.0	50.0	ppb	U
75-00-3	Chloroethane	66.0	**5370**	ppb	
75-69-4	Trichlorofluoromethane	56.0	56.0	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	94.0	94.0	ppb	U
75-35-4	1,1-Dichloroethene	42.0	**156**	ppb	
67-64-1	Acetone	378	378	ppb	U
75-15-0	Carbon disulfide	30.0	30.0	ppb	U
75-09-2	Methylene Chloride	40.0	**436**	ppb	
156-60-5	t-1,2-Dichloroethene	54.0	54.0	ppb	U
1634-04-4	Methyl t-butyl ether	50.0	50.0	ppb	U
75-34-3	1,1-Dichloroethane	28.0	**5230**	ppb	
590-20-7	2,2-Dichloropropane	56.0	56.0	ppb	U
156-59-2	c-1,2-Dichloroethene	38.0	38.0	ppb	U
78-93-3	2-Butanone	204	204	ppb	U
74-97-5	Bromochloromethane	28.0	28.0	ppb	U
67-66-3	Chloroform	26.0	26.0	ppb	U
71-55-6	1,1,1-Trichloroethane	22.0	**19700**	ppb	
56-23-5	Carbon Tetrachloride	36.0	36.0	ppb	U
563-58-6	1,1-Dichloropropene	100	100	ppb	U
71-43-2	Benzene	28.0	28.0	ppb	U
107-06-2	1,2-Dichloroethane	32.0	32.0	ppb	U
79-01-6	Trichloroethene	34.0	34.0	ppb	U
78-87-5	1,2-Dichloropropane	32.0	32.0	ppb	U
74-95-3	Dibromomethane	42.0	42.0	ppb	U
75-27-4	Bromodichloromethane	36.0	36.0	ppb	U
110-75-8	2-Chloroethylvinylether	62.0	62.0	ppb	U
10061-01-5	c-1,3-Dichloropropene	36.0	36.0	ppb	U
108-10-1	4-Methyl-2-pentanone	102	102	ppb	U
108-88-3	Toluene	32.0	**232**	ppb	
10061-02-6	t-1,3-Dichloropropene	36.0	36.0	ppb	U
79-00-5	1,1,2-Trichloroethane	62.0	62.0	ppb	U
127-18-4	Tetrachloroethene	16.0	16.0	ppb	U
142-28-9	1,3-Dichloropropane	42.0	42.0	ppb	U

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EPA 8260B

Sample: J7248-6...continue

Client Sample ID: DMP-3 Collected: 9/1/00 09:30
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
591-78-6	2-Hexanone	178	178	ppb	U
124-48-1	Dibromochloromethane	16.0	16.0	ppb	U
106-93-4	1,2-Dibromoethane	30.0	30.0	ppb	U
108-90-7	Chlorobenzene	14.0	14.0	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	28.0	28.0	ppb	U
100-41-4	Ethylbenzene	34.0	34.0	ppb	U
108-38-3	m,p-xylene	34.0	34.0	ppb	U
95-47-6	o-xylene	16.0	16.0	ppb	U
100-42-5	Styrene	16.0	16.0	ppb	U
75-25-2	Bromoform	24.0	24.0	ppb	U
98-82-8	Isopropylbenzene	20.0	20.0	ppb	U
108-86-1	Bromobenzene	20.0	20.0	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	26.0	26.0	ppb	U
103-65-1	n-Propylbenzene	28.0	28.0	ppb	U
96-18-4	1,2,3-Trichloropropane	88.0	88.0	ppb	U
622-96-8	p-Ethyltoluene	48.0	48.0	ppb	U
108-67-8	1,3,5-Trimethylbenzene	24.0	24.0	ppb	U
95-49-8	2-Chlorotoluene	34.0	34.0	ppb	U
106-43-4	4-Chlorotoluene	32.0	32.0	ppb	U
98-06-6	tert-Butylbenzene	26.0	26.0	ppb	U
95-63-6	1,2,4-Trimethylbenzene	26.0	26.0	ppb	U
135-98-8	sec-Butylbenzene	8.00	8.00	ppb	U
99-87-6	4-Isopropyltoluene	20.0	20.0	ppb	U
541-73-1	1,3-Dichlorobenzene	20.0	20.0	ppb	U
106-46-7	1,4-Dichlorobenzene	30.0	30.0	ppb	U
95-50-1	1,2-Dichlorobenzene	26.0	26.0	ppb	U
105-05-5	p-Diethylbenzene	54.0	54.0	ppb	U
104-51-8	n-Butylbenzene	28.0	28.0	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	54.0	54.0	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	100	100	ppb	U
120-82-1	1,2,4-Trichlorobenzene	50.0	50.0	ppb	U
87-68-3	Hexachlorobutadiene	48.0	48.0	ppb	U
91-20-3	Naphthalene	54.0	54.0	ppb	U
87-61-6	1,2,3-Trichlorobenzene	76.0	76.0	ppb	U

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9/14/00

EPA 8260B

Sample: J7248-7
Client Sample ID: SMP-4 Collected: 9/1/00 10:10
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.50	2.50	ppb	U
75-45-6	Chlorodifluoromethane	3.90	3.90	ppb	U
74-87-3	Chloromethane	1.80	1.80	ppb	U
75-01-4	Vinyl Chloride	1.75	**175**	ppb	
74-83-9	Bromomethane	1.25	1.25	ppb	U
75-00-3	Chloroethane	33.0	**1220**	ppb	
75-69-4	Trichlorofluoromethane	1.40	1.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.35	2.35	ppb	U
75-35-4	1,1-Dichloroethene	1.05	**105**	ppb	
67-64-1	Acetone	9.45	9.45	ppb	U
75-15-0	Carbon disulfide	0.75	0.75	ppb	U
75-09-2	Methylene Chloride	1.00	**295**	ppb	
156-60-5	t-1,2-Dichloroethene	1.35	1.35	ppb	U
1634-04-4	Methyl t-butyl ether	1.25	1.25	ppb	U
75-34-3	1,1-Dichloroethane	14.0	**4070**	ppb	
590-20-7	2,2-Dichloropropane	1.40	1.40	ppb	U
156-59-2	c-1,2-Dichloroethene	0.95	**14.0**	ppb	
78-93-3	2-Butanone	5.10	5.10	ppb	U
74-97-5	Bromochloromethane	0.70	0.70	ppb	U
67-66-3	Chloroform	0.65	0.65	ppb	U
71-55-6	1,1,1-Trichloroethane	11.0	**3150**	ppb	
56-23-5	Carbon Tetrachloride	0.90	0.90	ppb	U
563-58-6	1,1-Dichloropropene	2.50	2.50	ppb	U
71-43-2	Benzene	0.70	0.70	ppb	U
107-06-2	1,2-Dichloroethane	0.80	**26.2**	ppb	
79-01-6	Trichloroethene	0.85	0.85	ppb	U
78-87-5	1,2-Dichloropropane	0.80	0.80	ppb	U
74-95-3	Dibromomethane	1.05	1.05	ppb	U
75-27-4	Bromodichloromethane	0.90	0.90	ppb	U
110-75-8	2-Chloroethylvinylether	1.55	1.55	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.90	0.90	ppb	U
108-10-1	4-Methyl-2-pentanone	2.55	2.55	ppb	U
108-88-3	Toluene	0.80	**116**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.90	0.90	ppb	U
79-00-5	1,1,2-Trichloroethane	1.55	1.55	ppb	U
127-18-4	Tetrachloroethene	0.40	**13.2**	ppb	
142-28-9	1,3-Dichloropropane	1.05	1.05	ppb	U

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EPA 8260B

Sample: J7248-7...continue

Client Sample ID: SMP-4 Collected: 9/1/00 10:10
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
591-78-6	2-Hexanone	4.45	4.45	ppb	U
124-48-1	Dibromochloromethane	0.40	0.40	ppb	U
106-93-4	1,2-Dibromoethane	0.75	0.75	ppb	U
108-90-7	Chlorobenzene	0.35	0.35	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.70	0.70	ppb	U
100-41-4	Ethylbenzene	0.85	0.85	ppb	U
108-38-3	m,p-xylene	0.85	0.85	ppb	U
95-47-6	o-xylene	0.40	0.40	ppb	U
100-42-5	Styrene	0.40	0.40	ppb	U
75-25-2	Bromoform	0.60	0.60	ppb	U
98-82-8	Isopropylbenzene	0.50	0.50	ppb	U
108-86-1	Bromobenzene	0.50	0.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.65	0.65	ppb	U
103-65-1	n-Propylbenzene	0.70	0.70	ppb	U
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.20	**4.80**	ppb	
108-67-8	1,3,5-Trimethylbenzene	0.60	**3.20**	ppb	
95-49-8	2-Chlorotoluene	0.85	**45.5**	ppb	
106-43-4	4-Chlorotoluene	0.80	0.80	ppb	U
98-06-6	tert-Butylbenzene	0.65	0.65	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.65	**8.60**	ppb	
135-98-8	sec-Butylbenzene	0.20	0.20	ppb	U
99-87-6	4-Isopropyltoluene	0.50	0.50	ppb	U
541-73-1	1,3-Dichlorobenzene	0.50	0.50	ppb	U
106-46-7	1,4-Dichlorobenzene	0.75	0.75	ppb	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	ppb	U
105-05-5	p-Diethylbenzene	1.35	1.35	ppb	U
104-51-8	n-Butylbenzene	0.70	0.70	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	1.35	1.35	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.50	2.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.25	1.25	ppb	U
87-68-3	Hexachlorobutadiene	1.20	1.20	ppb	U
91-20-3	Naphthalene	1.35	1.35	ppb	U
87-61-6	1,2,3-Trichlorobenzene	1.90	1.90	ppb	U

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9/14/00

EPA 8260B

Sample: J7248-8

Client Sample ID: DMP-4 Collected: 9/1/00 10:45
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.50	2.50	ppb	U
75-45-6	Chlorodifluoromethane	3.90	3.90	ppb	U
74-87-3	Chloromethane	1.80	1.80	ppb	U
75-01-4	Vinyl Chloride	1.75	1.75	ppb	U
74-83-9	Bromomethane	1.25	1.25	ppb	U
75-00-3	Chloroethane	33.0	**2420**	ppb	
75-69-4	Trichlorofluoromethane	1.40	1.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.35	2.35	ppb	U
75-35-4	1,1-Dichloroethene	1.05	1.05	ppb	U
67-64-1	Acetone	9.45	9.45	ppb	U
75-15-0	Carbon disulfide	0.75	0.75	ppb	U
75-09-2	Methylene Chloride	1.00	**22.8**	ppb	
156-60-5	t-1,2-Dichloroethene	1.35	1.35	ppb	U
1634-04-4	Methyl t-butyl ether	1.25	1.25	ppb	U
75-34-3	1,1-Dichloroethane	0.70	**29.7**	ppb	
590-20-7	2,2-Dichloropropane	1.40	1.40	ppb	U
156-59-2	c-1,2-Dichloroethene	0.95	0.95	ppb	U
78-93-3	2-Butanone	5.10	5.10	ppb	U
74-97-5	Bromochloromethane	0.70	0.70	ppb	U
67-66-3	Chloroform	0.65	0.65	ppb	U
71-55-6	1,1,1-Trichloroethane	0.55	**56.3**	ppb	
56-23-5	Carbon Tetrachloride	0.90	0.90	ppb	U
563-58-6	1,1-Dichloropropene	2.50	2.50	ppb	U
71-43-2	Benzene	0.70	0.70	ppb	U
107-06-2	1,2-Dichloroethane	0.80	0.80	ppb	U
79-01-6	Trichloroethene	0.85	0.85	ppb	U
78-87-5	1,2-Dichloropropane	0.80	0.80	ppb	U
74-95-3	Dibromomethane	1.05	1.05	ppb	U
75-27-4	Bromodichloromethane	0.90	0.90	ppb	U
110-75-8	2-Chloroethylvinylether	1.55	1.55	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.90	0.90	ppb	U
108-10-1	4-Methyl-2-pentanone	2.55	2.55	ppb	U
108-88-3	Toluene	0.80	**11.4**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.90	0.90	ppb	U
79-00-5	1,1,2-Trichloroethane	1.55	1.55	ppb	U
127-18-4	Tetrachloroethene	0.40	0.40	ppb	U
142-28-9	1,3-Dichloropropane	1.05	1.05	ppb	U

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9/14/00

EPA 8260B

Sample: J7248-8...continue

Client Sample ID: DMP-4 Collected: 9/1/00 10:45
Matrix: Liquid Type: Grab
Remarks: See Case Narrative

Analyzed Date: 9/7/00

Cas No	Analyte	MDL	Concentration	Units	Q
591-78-6	2-Hexanone	4.45	4.45	ppb	U
124-48-1	Dibromochloromethane	0.40	0.40	ppb	U
106-93-4	1,2-Dibromoethane	0.75	0.75	ppb	U
108-90-7	Chlorobenzene	0.35	0.35	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.70	0.70	ppb	U
100-41-4	Ethylbenzene	0.85	0.85	ppb	U
108-38-3	m,p-xylene	0.85	0.85	ppb	U
95-47-6	o-xylene	0.40	**4.80**	ppb	
100-42-5	Styrene	0.40	0.40	ppb	U
75-25-2	Bromoform	0.60	0.60	ppb	U
98-82-8	Isopropylbenzene	0.50	0.50	ppb	U
108-86-1	Bromobenzene	0.50	0.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.65	0.65	ppb	U
103-65-1	n-Propylbenzene	0.70	**44.3**	ppb	
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.20	**3.70**	ppb	
108-67-8	1,3,5-Trimethylbenzene	0.60	**9.20**	ppb	
95-49-8	2-Chlorotoluene	0.85	**64.5**	ppb	
106-43-4	4-Chlorotoluene	0.80	0.80	ppb	U
98-06-6	tert-Butylbenzene	0.65	0.65	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.65	**18.3**	ppb	
135-98-8	sec-Butylbenzene	0.20	0.20	ppb	U
99-87-6	4-Isopropyltoluene	0.50	0.50	ppb	U
541-73-1	1,3-Dichlorobenzene	0.50	0.50	ppb	U
106-46-7	1,4-Dichlorobenzene	0.75	0.75	ppb	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	ppb	U
105-05-5	p-Diethylbenzene	1.35	1.35	ppb	U
104-51-8	n-Butylbenzene	0.70	0.70	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	1.35	1.35	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.50	2.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.25	1.25	ppb	U
87-68-3	Hexachlorobutadiene	1.20	1.20	ppb	U
91-20-3	Naphthalene	1.35	**4.30**	ppb	
87-61-6	1,2,3-Trichlorobenzene	1.90	1.90	ppb	U

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9/14/00

Iron-Total

Sample: J7248-1
Client Sample ID: MW-14 Collected: 8/31/00 14:20
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/5/00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**55.2**	ppm	

Sample: J7248-2
Client Sample ID: MW-7 Collected: 8/31/00 14:50
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/5/00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**2.22**	ppm	

Sample: J7248-3
Client Sample ID: SMP-1 Collected: 8/31/00 16:10
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/5/00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**19.8**	ppm	

Sample: J7248-4
Client Sample ID: DMP-1 Collected: 8/31/00 16:50
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/5/00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**88.5**	ppm	

Sample: J7248-5
Client Sample ID: SMP-3 Collected: 9/1/00 09:10
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/5/00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**50.6**	ppm	

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9/14/00

Iron-Total

Sample: J7248-6
Client Sample ID: DMP-3 Collected: 9/1/00 09:30
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/5/00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	60.4	ppm	

Sample: J7248-7
Client Sample ID: SMP-4 Collected: 9/1/00 10:10
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/5/00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	76.2	ppm	

Sample: J7248-8
Client Sample ID: DMP-4 Collected: 9/1/00 10:45
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/5/00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	48.2	ppm	

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9/14/00

Sulfate by EPA Method 375.4

Sample: J7248-1
Client Sample ID: MW-14 — Collected: 8/31/00 14:20
Matrix: Liquid — Type: Grab
Remarks:

Analyzed Date: 9/13/00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	3.90	**5470**	ppm	

Sample: J7248-2
Client Sample ID: MW-7 — Collected: 8/31/00 14:50
Matrix: Liquid — Type: Grab
Remarks:

Analyzed Date: 9/13/00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.078	**104**	ppm	

Sample: J7248-3
Client Sample ID: SMP-1 — Collected: 8/31/00 16:10
Matrix: Liquid — Type: Grab
Remarks:

Analyzed Date: 9/13/00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.078	**236**	ppm	

Sample: J7248-4
Client Sample ID: DMP-1 — Collected: 8/31/00 16:50
Matrix: Liquid — Type: Grab
Remarks:

Analyzed Date: 9/13/00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	78.0	**29600**	ppm	

Sample: J7248-5
Client Sample ID: SMP-3 — Collected: 9/1/00 09:10
Matrix: Liquid — Type: Grab
Remarks:

Analyzed Date: 9/13/00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.78	**286**	ppm	

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9/14/00

Sulfate by EPA Method 375.4

Sample: J7248-6
Client Sample ID: DMP-3 Collected: 9/1/00 09:30
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/13/00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.078	**124**	ppm	

Sample: J7248-7
Client Sample ID: SMP-4 Collected: 9/1/00 10:10
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/13/00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.78	**933**	ppm	

Sample: J7248-8
Client Sample ID: DMP-4 Collected: 9/1/00 10:45
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/13/00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.078	**133**	ppm	

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9/14/00

Total Organic Carbon (TOC)-Method 415.1

Sample: J7248-1
Client Sample ID: MW-14 Collected: 8/31/00 14:20
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/14/00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**23500**	ppm	

Sample: J7248-2
Client Sample ID: MW-7 Collected: 8/31/00 14:50
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/14/00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**38.8**	ppm	

Sample: J7248-3
Client Sample ID: SMP-1 Collected: 8/31/00 16:10
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/14/00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**91.7**	ppm	

Sample: J7248-4
Client Sample ID: DMP-1 Collected: 8/31/00 16:50
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/14/00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**299**	ppm	

Sample: J7248-5
Client Sample ID: SMP-3 Collected: 9/1/00 09:10
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/14/00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**294**	ppm	

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9/14/00

Total Organic Carbon (TOC)-Method 415.1

Sample: J7248-6
Client Sample ID: DMP-3 Collected: 9/1/00 09:30
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/14/00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**98.2**	ppm	

Sample: J7248-7
Client Sample ID: SMP-4 Collected: 9/1/00 10:10
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/14/00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**73.6**	ppm	

Sample: J7248-8
Client Sample ID: DMP-4 Collected: 9/1/00 10:45
Matrix: Liquid Type: Grab
Remarks:

Analyzed Date: 9/14/00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**43.7**	ppm	

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9/14/00

Case Narrative

8260

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone
2-Butanone
4-Methyl-2-pentanone
2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by: _____

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9/14/00

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

ETL

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516-249-1456 • Fax: 516-249-8344

CHAIN OF CUSTODY DOCUMENT

(516) 609-1606

*AUTHORIZED BY:
CHARLIE NEHRIG

J 7248

Project Name: [illegible] | Project Manager: MATT [illegible] | Sampler (Signature): _____ (Print): _____

Project Address:

Client | J/N: | ☐ Rush by / /

SAMPLE INFO Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank; Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe | *Air - Vol. (Liters) include: Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location	Total. # Cont.	601/602	BTX/BTEX	MTBE	624/8260/8021	625/8270/BN	PCB/Pesticides	Pet.Prods./8100M	RCRA Metals	pH/Flash/React	418.1 - TRPH	[illegible]	[illegible]	[illegible]	[illegible]
1	8/20/[illegible]	[illegible]	G	W	MW-14	03										X	X	X	X	
2	"	[illegible]			MW-7	03														
3		1610			SW-1	03														
4		1650			DW-1	03														
5	[illegible]	[illegible]			SMP-2	03														
6		[illegible]			DMP-3	03														
7		1010			SMP-7	03														
8		[illegible]			DW-4	02														
9																				
10																				
11					* NO UNPRESERVED BOTTLE PROVIDED FOR SULFIDE. *															
12					* NO VIAL W/ H2SO4 PROVIDED FOR TOC ANALYSIS. *															
13																				
14																				
15																				

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent
[illegible]	8/20 1400	D. [illegible]			
Relinquished by (Signature):	**Date / Time**	**Printed Name & Agent:**	**Received for Lab by (Signature):**	**Date / Time**	**Printed Name**
			[illegible]	8/20 1400	[illegible]

Comments & Special Instructions	QA/QC Type:	Number & Type of Containers:	Preservatives:	Temp:
		P/G - VOA		[illegible]

Environmental Testing Laboratories, Inc.

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10/27/2000

Custody Document: K8057

Received: 10/19/2000 08:20
Sampled by: David Hanny

Client: Photo Circuits

31 Sea Cliff Avenue
Glen Cove,
NY 11542

Project: Photocircuits Corp.

31 Sea Cliff Avenue
Glen Cove,
NY

Manager: Charlie Nehrig

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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10/27/2000

EPA 8260B

Sample: K8057-1
Client Sample ID: DMP-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/27/2000

Type: Grab

Collected: 10/18/2000 14:00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.50	0.50	ppb	U
75-45-6	Chlorodifluoromethane	0.78	0.78	ppb	U
74-87-3	Chloromethane	0.36	0.36	ppb	U
75-01-4	Vinyl Chloride	0.35	**3.50**	ppb	
74-83-9	Bromomethane	0.25	0.25	ppb	U
75-00-3	Chloroethane	0.33	**43.4**	ppb	
75-69-4	Trichlorofluoromethane	0.28	0.28	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	0.47	0.47	ppb	U
75-35-4	1,1-Dichloroethene	0.21	0.21	ppb	U
67-64-1	Acetone	1.89	**139**	ppb	
75-15-0	Carbon disulfide	0.15	0.15	ppb	U
75-09-2	Methylene Chloride	0.20	**1.40**	ppb	
156-60-5	t-1,2-Dichloroethene	0.27	0.27	ppb	U
1634-04-4	Methyl t-butyl ether	0.25	0.25	ppb	U
75-34-3	1,1-Dichloroethane	0.14	**17.6**	ppb	
590-20-7	2,2-Dichloropropane	0.28	0.28	ppb	U
156-59-2	c-1,2-Dichloroethene	0.19	**1.70**	ppb	
78-93-3	2-Butanone	1.02	1.02	ppb	U
74-97-5	Bromochloromethane	0.14	0.14	ppb	U
67-66-3	Chloroform	0.13	0.13	ppb	U
71-55-6	1,1,1-Trichloroethane	0.11	0.11	ppb	U
56-23-5	Carbon Tetrachloride	0.18	0.18	ppb	U
563-58-6	1,1-Dichloropropene	0.50	0.50	ppb	U
71-43-2	Benzene	0.14	0.14	ppb	U
107-06-2	1,2-Dichloroethane	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.17	0.17	ppb	U
78-87-5	1,2-Dichloropropane	0.16	0.16	ppb	U
74-95-3	Dibromomethane	0.21	0.21	ppb	U
75-27-4	Bromodichloromethane	0.18	0.18	ppb	U
110-75-8	2-Chloroethylvinylether	0.31	0.31	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.18	0.18	ppb	U
108-10-1	4-Methyl-2-pentanone	0.51	0.51	ppb	U
108-88-3	Toluene	0.16	**2.80**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.18	0.18	ppb	U
79-00-5	1,1,2-Trichloroethane	0.31	0.31	ppb	U

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10/27/2000

EPA 8260B

Sample: K8057-1...continue

Client Sample ID: DMP-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/27/2000

Type: Grab

Collected: 10/18/2000 14:00

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	0.080	0.080	ppb	U
142-28-9	1,3-Dichloropropane	0.21	0.21	ppb	U
591-78-6	2-Hexanone	0.89	0.89	ppb	U
124-48-1	Dibromochloromethane	0.080	0.080	ppb	U
106-93-4	1,2-Dibromoethane	0.15	0.15	ppb	U
108-90-7	Chlorobenzene	0.070	0.070	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.14	0.14	ppb	U
100-41-4	Ethylbenzene	0.17	0.17	ppb	U
108-38-3	m,p-xylene	0.17	0.17	ppb	U
95-47-6	o-xylene	0.080	0.080	ppb	U
100-42-5	Styrene	0.080	0.080	ppb	U
75-25-2	Bromoform	0.12	0.12	ppb	U
98-82-8	Isopropylbenzene	0.10	0.10	ppb	U
108-86-1	Bromobenzene	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.14	0.14	ppb	U
96-18-4	1,2,3-Trichloropropane	0.44	0.44	ppb	U
622-96-8	p-Ethyltoluene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
95-49-8	2-Chlorotoluene	0.17	0.17	ppb	U
106-43-4	4-Chlorotoluene	0.16	0.16	ppb	U
98-06-6	tert-Butylbenzene	0.13	0.13	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.13	0.77	ppb	
135-98-8	sec-Butylbenzene	0.040	0.040	ppb	U
99-87-6	4-Isopropyltoluene	0.10	0.10	ppb	U
541-73-1	1,3-Dichlorobenzene	0.10	0.10	ppb	U
106-46-7	1,4-Dichlorobenzene	0.15	0.15	ppb	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	ppb	U
105-05-5	p-Diethylbenzene	0.27	0.27	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	0.27	0.27	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	0.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.25	0.25	ppb	U
87-68-3	Hexachlorobutadiene	0.24	0.24	ppb	U
91-20-3	Naphthalene	0.27	0.27	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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10/27/2000

EPA 8260B

Sample: K8057-1...continue

Client Sample ID: DMP-1 Collected: 10/18/2000 14:00

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/27/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	0.38	0.38	ppb	U

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10/27/2000

EPA 8260B

Sample: K8057-2
Client Sample ID: SMP-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/24/2000

Type: Grab

Collected: 10/18/2000 13:30

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.50	2.50	ppb	U
75-45-6	Chlorodifluoromethane	3.90	3.90	ppb	U
74-87-3	Chloromethane	1.80	1.80	ppb	U
75-01-4	Vinyl Chloride	175	**5990**	ppb	
74-83-9	Bromomethane	1.25	1.25	ppb	U
75-00-3	Chloroethane	1.65	**71.6**	ppb	
75-69-4	Trichlorofluoromethane	1.40	1.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.35	2.35	ppb	U
75-35-4	1,1-Dichloroethene	1.05	**64.3**	ppb	
67-64-1	Acetone	9.45	9.45	ppb	U
75-15-0	Carbon disulfide	0.75	0.75	ppb	U
75-09-2	Methylene Chloride	1.00	**43.1**	ppb	
156-60-5	t-1,2-Dichloroethene	1.35	**69.9**	ppb	
1634-04-4	Methyl t-butyl ether	1.25	1.25	ppb	U
75-34-3	1,1-Dichloroethane	0.70	**486**	ppb	
590-20-7	2,2-Dichloropropane	1.40	1.40	ppb	U
156-59-2	c-1,2-Dichloroethene	95.0	**37500**	ppb	
78-93-3	2-Butanone	5.10	5.10	ppb	U
74-97-5	Bromochloromethane	0.70	0.70	ppb	U
67-66-3	Chloroform	0.65	0.65	ppb	U
71-55-6	1,1,1-Trichloroethane	0.55	0.55	ppb	U
56-23-5	Carbon Tetrachloride	0.90	0.90	ppb	U
563-58-6	1,1-Dichloropropene	2.50	2.50	ppb	U
71-43-2	Benzene	0.70	**4.40**	ppb	
107-06-2	1,2-Dichloroethane	0.80	0.80	ppb	U
79-01-6	Trichloroethene	0.85	**79.0**	ppb	
78-87-5	1,2-Dichloropropane	0.80	0.80	ppb	U
74-95-3	Dibromomethane	1.05	1.05	ppb	U
75-27-4	Bromodichloromethane	0.90	0.90	ppb	U
110-75-8	2-Chloroethylvinylether	1.55	1.55	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.90	0.90	ppb	U
108-10-1	4-Methyl-2-pentanone	2.55	2.55	ppb	U
108-88-3	Toluene	0.80	**61.1**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.90	0.90	ppb	U
79-00-5	1,1,2-Trichloroethane	1.55	1.55	ppb	U

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10/27/2000

EPA 8260B

Sample: K8057-2...continue

Client Sample ID: SMP-1 Collected: 10/18/2000 13:30

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/24/2000

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	0.40	0.40	ppb	U
142-28-9	1,3-Dichloropropane	1.05	1.05	ppb	U
591-78-6	2-Hexanone	4.45	4.45	ppb	U
124-48-1	Dibromochloromethane	0.40	0.40	ppb	U
106-93-4	1,2-Dibromoethane	0.75	0.75	ppb	U
108-90-7	Chlorobenzene	0.35	0.35	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.70	0.70	ppb	U
100-41-4	Ethylbenzene	0.85	0.85	ppb	U
108-38-3	m,p-xylene	0.85	0.85	ppb	U
95-47-6	o-xylene	0.40	0.40	ppb	U
100-42-5	Styrene	0.40	0.40	ppb	U
75-25-2	Bromoform	0.60	0.60	ppb	U
98-82-8	Isopropylbenzene	0.50	0.50	ppb	U
108-86-1	Bromobenzene	0.50	0.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.65	0.65	ppb	U
103-65-1	n-Propylbenzene	0.70	0.70	ppb	U
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.20	1.20	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.60	0.60	ppb	U
95-49-8	2-Chlorotoluene	0.85	**16.3**	ppb	
106-43-4	4-Chlorotoluene	0.80	0.80	ppb	U
98-06-6	tert-Butylbenzene	0.65	0.65	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.65	0.65	ppb	U
135-98-8	sec-Butylbenzene	0.20	0.20	ppb	U
99-87-6	4-Isopropyltoluene	0.50	0.50	ppb	U
541-73-1	1,3-Dichlorobenzene	0.50	0.50	ppb	U
106-46-7	1,4-Dichlorobenzene	0.75	0.75	ppb	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	ppb	U
105-05-5	p-Diethylbenzene	1.35	1.35	ppb	U
104-51-8	n-Butylbenzene	0.70	0.70	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	1.35	1.35	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.50	2.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.25	1.25	ppb	U
87-68-3	Hexachlorobutadiene	1.20	1.20	ppb	U
91-20-3	Naphthalene	1.35	1.35	ppb	U

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10/27/2000

EPA 8260B

Sample: K8057-2...continue

Client Sample ID: SMP-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/24/2000

Type: Grab

Collected: 10/18/2000 13:30

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	1.90	1.90	ppb	U

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10/27/2000

Iron-Total

Sample: K8057-1

Client Sample ID: DMP-1 Collected: 10/18/2000 14:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	4.45	ppm	

Sample: K8057-2

Client Sample ID: SMP-1 Collected: 10/18/2000 13:30

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	11.6	ppm	

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10/27/2000

Nitrogen/Nitrate

Sample: K8057-1

Client Sample ID: DMP-1 Collected: 10/18/2000 14:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/20/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.20**	ppm	

Sample: K8057-2

Client Sample ID: SMP-1 Collected: 10/18/2000 13:30
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/20/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.054**	ppm	

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10/27/2000

Sulfate by EPA Method 375.4

Sample: K8057-1

Client Sample ID: DMP-1 Collected: 10/18/2000 14:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/20/2000

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	1.12	37.7	ppm	

Sample: K8057-2

Client Sample ID: SMP-1 Collected: 10/18/2000 13:30

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/20/2000

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	13.9	360	ppm	

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10/27/2000

Total Organic Carbon (TOC)-Method 415.1

Sample: K8057-1
Client Sample ID: DMP-1
Matrix: Liquid
Remarks:
Analyzed Date: 10/19/2000
Type: Grab
Collected: 10/18/2000 14:00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	224	ppm	

Sample: K8057-2
Client Sample ID: SMP-1
Matrix: Liquid
Remarks:
Analyzed Date: 10/19/2000
Type: Grab
Collected: 10/18/2000 13:30

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	83.4	ppm	

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10/27/2000

Case Narrative

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone
2-Butanone
4-Methyl-2-pentanone
2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by: _____

Environmental Testing Laboratories, Inc.
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Phone - 631-249-1456 Fax - 631-249-8344

10/27/2000

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

ETL

Environmental Testing Laboratories, Inc.
208 Route 109 • Farmingdale • New York 11735
516-249-1456 • Fax: 516-249-8344

CHAIN OF CUSTODY DOCUMENT

K 8057

Project Name: Photo Circuits | Project Manager: Charlie Nehrig | Sampler (Signature): David R. Henry (Print): David Henry

Project Address: 31 Sea Cliff Ave.

Client Photocircuits J/N: | ☐ Rush by / /

SAMPLE INFO Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank; Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe | *Air - Vol. (Liters) include: Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location	Total. # Cont.	601/602	BTX/BTEX	MTBE	624/8260/8021	625/8270/BN	PCB/Pesticides	Pet.Prods./8100M	RCRA Metals	pH/Flash/React	418.1 - TRPH	TOC	EPA 8260	Nitrate	Sulfate	Iron
1	10/18/00	1400	GW	GW	Dmp-1	6										X	X	X	X	X	X
2	10/18/00	1330	GW	GW	Smp-1	6										X	X	X	X	X	X
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10					Bill To P.O. # D50-B1821																
11																					
12																					
13																					
14																					
15																					

SHIPPING COPY

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent
Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received for Lab by (Signature):	Date 10/19 Time 0820	Printed Name C. Cleary
Comments & Special Instructions		QA/QC Type:	Number & Type of Containers: 2-500 P-HCL	Preservatives:	Temp: 5° C

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

11/01/2000

Custody Document: K8056

Received: 10/20/2000 08:30
Sampled by: N/A

Client: Photo Circuits

31 Sea Cliff Avenue
Glen Cove,
NY 11542

Project: Photocircuits Corp.

31 Sea Cliff Avenue
Glen Cove,
NY

Manager: Charlie Nehrig

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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11/01/2000

EPA 8260B

Sample: K8056-1
Client Sample ID: SMP-3
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/26/2000

Type: Grab

Collected: 10/19/2000 09:00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	500	500	ppb	U
75-45-6	Chlorodifluoromethane	780	780	ppb	U
74-87-3	Chloromethane	360	360	ppb	U
75-01-4	Vinyl Chloride	350	350	ppb	U
74-83-9	Bromomethane	250	250	ppb	U
75-00-3	Chloroethane	330	330	ppb	U
75-69-4	Trichlorofluoromethane	280	280	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	470	470	ppb	U
75-35-4	1,1-Dichloroethene	210	210	ppb	U
67-64-1	Acetone	1890	1890	ppb	U
75-15-0	Carbon disulfide	150	150	ppb	U
75-09-2	Methylene Chloride	200	200	ppb	U
156-60-5	t-1,2-Dichloroethene	270	270	ppb	U
1634-04-4	Methyl t-butyl ether	250	250	ppb	U
75-34-3	1,1-Dichloroethane	140	**47800**	ppb	
590-20-7	2,2-Dichloropropane	280	280	ppb	U
156-59-2	c-1,2-Dichloroethene	190	190	ppb	U
78-93-3	2-Butanone	1020	1020	ppb	U
74-97-5	Bromochloromethane	140	140	ppb	U
67-66-3	Chloroform	130	130	ppb	U
71-55-6	1,1,1-Trichloroethane	1550	**235000**	ppb	
56-23-5	Carbon Tetrachloride	180	180	ppb	U
563-58-6	1,1-Dichloropropene	500	500	ppb	U
71-43-2	Benzene	140	140	ppb	U
107-06-2	1,2-Dichloroethane	160	160	ppb	U
79-01-6	Trichloroethene	170	170	ppb	U
78-87-5	1,2-Dichloropropane	160	160	ppb	U
74-95-3	Dibromomethane	210	210	ppb	U
75-27-4	Bromodichloromethane	180	180	ppb	U
110-75-8	2-Chloroethylvinylether	310	310	ppb	U
10061-01-5	c-1,3-Dichloropropene	180	180	ppb	U
108-10-1	4-Methyl-2-pentanone	510	510	ppb	U
108-88-3	Toluene	160	160	ppb	U
10061-02-6	t-1,3-Dichloropropene	180	180	ppb	U
79-00-5	1,1,2-Trichloroethane	310	310	ppb	U

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11/01/2000

EPA 8260B

Sample: K8056-1...continue

Client Sample ID: SMP-3
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/26/2000

Type: Grab

Collected: 10/19/2000 09:00

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	80.0	80.0	ppb	U
142-28-9	1,3-Dichloropropane	210	210	ppb	U
591-78-6	2-Hexanone	890	890	ppb	U
124-48-1	Dibromochloromethane	80.0	80.0	ppb	U
106-93-4	1,2-Dibromoethane	150	150	ppb	U
108-90-7	Chlorobenzene	70.0	70.0	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	140	140	ppb	U
100-41-4	Ethylbenzene	170	170	ppb	U
108-38-3	m,p-xylene	170	170	ppb	U
95-47-6	o-xylene	80.0	80.0	ppb	U
100-42-5	Styrene	80.0	80.0	ppb	U
75-25-2	Bromoform	120	120	ppb	U
98-82-8	Isopropylbenzene	100	100	ppb	U
108-86-1	Bromobenzene	100	100	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	130	130	ppb	U
103-65-1	n-Propylbenzene	140	140	ppb	U
96-18-4	1,2,3-Trichloropropane	440	440	ppb	U
622-96-8	p-Ethyltoluene	240	240	ppb	U
108-67-8	1,3,5-Trimethylbenzene	120	120	ppb	U
95-49-8	2-Chlorotoluene	170	170	ppb	U
106-43-4	4-Chlorotoluene	160	160	ppb	U
98-06-6	tert-Butylbenzene	130	130	ppb	U
95-63-6	1,2,4-Trimethylbenzene	130	130	ppb	U
135-98-8	sec-Butylbenzene	40.0	40.0	ppb	U
99-87-6	4-Isopropyltoluene	100	100	ppb	U
541-73-1	1,3-Dichlorobenzene	100	100	ppb	U
106-46-7	1,4-Dichlorobenzene	150	150	ppb	U
95-50-1	1,2-Dichlorobenzene	130	130	ppb	U
105-05-5	p-Diethylbenzene	270	270	ppb	U
104-51-8	n-Butylbenzene	140	140	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	270	270	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	500	500	ppb	U
120-82-1	1,2,4-Trichlorobenzene	250	250	ppb	U
87-68-3	Hexachlorobutadiene	240	240	ppb	U
91-20-3	Naphthalene	270	270	ppb	U

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11/01/2000

EPA 8260B

Sample: K8056-1...continue

Client Sample ID: SMP-3
Collected: 10/19/2000 09:00
Matrix: Liquid
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	380	380	ppb	U

Environmental Testing Laboratories, Inc.

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11/01/2000

EPA 8260B

Sample: K8056-2

Client Sample ID: DMP-3 Collected: 10/19/2000 09:30

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	11.0	11.0	ppb	U
75-45-6	Chlorodifluoromethane	23.0	23.0	ppb	U
74-87-3	Chloromethane	19.0	19.0	ppb	U
75-01-4	Vinyl Chloride	20.5	**928**	ppb	
74-83-9	Bromomethane	18.5	18.5	ppb	U
75-00-3	Chloroethane	12.5	**6970**	ppb	
75-69-4	Trichlorofluoromethane	16.0	16.0	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	13.0	13.0	ppb	U
75-35-4	1,1-Dichloroethene	24.0	24.0	ppb	U
67-64-1	Acetone	65.0	65.0	ppb	U
75-15-0	Carbon disulfide	10.5	10.5	ppb	U
75-09-2	Methylene Chloride	15.0	**149**	ppb	
156-60-5	t-1,2-Dichloroethene	14.0	14.0	ppb	U
1634-04-4	Methyl t-butyl ether	11.5	11.5	ppb	U
75-34-3	1,1-Dichloroethane	9.00	**4860**	ppb	
590-20-7	2,2-Dichloropropane	18.5	18.5	ppb	U
156-59-2	c-1,2-Dichloroethene	17.0	17.0	ppb	U
78-93-3	2-Butanone	41.0	41.0	ppb	U
74-97-5	Bromochloromethane	13.0	13.0	ppb	U
67-66-3	Chloroform	13.0	13.0	ppb	U
71-55-6	1,1,1-Trichloroethane	110	**14300**	ppb	
56-23-5	Carbon Tetrachloride	17.0	17.0	ppb	U
563-58-6	1,1-Dichloropropene	34.0	34.0	ppb	U
71-43-2	Benzene	7.00	7.00	ppb	U
107-06-2	1,2-Dichloroethane	9.50	9.50	ppb	U
79-01-6	Trichloroethene	13.5	13.5	ppb	U
78-87-5	1,2-Dichloropropane	6.00	6.00	ppb	U
74-95-3	Dibromomethane	15.5	15.5	ppb	U
75-27-4	Bromodichloromethane	6.00	6.00	ppb	U
110-75-8	2-Chloroethylvinylether	18.5	18.5	ppb	U
10061-01-5	c-1,3-Dichloropropene	9.50	9.50	ppb	U
108-10-1	4-Methyl-2-pentanone	22.5	22.5	ppb	U
108-88-3	Toluene	8.00	**134**	ppb	
10061-02-6	t-1,3-Dichloropropene	8.00	8.00	ppb	U
79-00-5	1,1,2-Trichloroethane	18.5	18.5	ppb	U

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Sample: K8056-2...continue

Client Sample ID: DMP-3 Collected: 10/19/2000 09:30
Matrix: Liquid Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	14.0	**60.5**	ppb	
142-28-9	1,3-Dichloropropane	5.50	5.50	ppb	U
591-78-6	2-Hexanone	24.5	24.5	ppb	U
124-48-1	Dibromochloromethane	9.00	9.00	ppb	U
106-93-4	1,2-Dibromoethane	7.00	7.00	ppb	U
108-90-7	Chlorobenzene	10.5	10.5	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	16.0	16.0	ppb	U
100-41-4	Ethylbenzene	10.5	10.5	ppb	U
108-38-3	m,p-xylene	22.5	22.5	ppb	U
95-47-6	o-xylene	13.5	13.5	ppb	U
100-42-5	Styrene	14.0	14.0	ppb	U
75-25-2	Bromoform	10.0	10.0	ppb	U
98-82-8	Isopropylbenzene	10.5	10.5	ppb	U
108-86-1	Bromobenzene	9.50	9.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	7.00	7.00	ppb	U
103-65-1	n-Propylbenzene	14.0	14.0	ppb	U
96-18-4	1,2,3-Trichloropropane	22.0	22.0	ppb	U
622-96-8	p-Ethyltoluene	17.0	17.0	ppb	U
108-67-8	1,3,5-Trimethylbenzene	15.0	15.0	ppb	U
95-49-8	2-Chlorotoluene	13.5	13.5	ppb	U
106-43-4	4-Chlorotoluene	7.00	7.00	ppb	U
98-06-6	tert-Butylbenzene	14.5	14.5	ppb	U
95-63-6	1,2,4-Trimethylbenzene	12.5	12.5	ppb	U
135-98-8	sec-Butylbenzene	12.5	12.5	ppb	U
99-87-6	4-Isopropyltoluene	15.5	15.5	ppb	U
541-73-1	1,3-Dichlorobenzene	5.50	5.50	ppb	U
106-46-7	1,4-Dichlorobenzene	7.00	7.00	ppb	U
95-50-1	1,2-Dichlorobenzene	9.50	9.50	ppb	U
105-05-5	p-Diethylbenzene	16.0	16.0	ppb	U
104-51-8	n-Butylbenzene	13.5	13.5	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	9.50	9.50	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	21.0	21.0	ppb	U
120-82-1	1,2,4-Trichlorobenzene	13.5	13.5	ppb	U
87-68-3	Hexachlorobutadiene	16.0	16.0	ppb	U
91-20-3	Naphthalene	9.00	9.00	ppb	U

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EPA 8260B

Sample: K8056-2...continue

Client Sample ID: DMP-3 Collected: 10/19/2000 09:30
Matrix: Liquid Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	6.50	6.50	ppb	U

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Sample: K8056-3

Client Sample ID: SMP-4 Collected: 10/19/2000 11:00

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/31/2000

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	4.40	4.40	ppb	U
75-45-6	Chlorodifluoromethane	9.20	9.20	ppb	U
74-87-3	Chloromethane	7.60	7.60	ppb	U
75-01-4	Vinyl Chloride	8.20	**34.6**	ppb	
74-83-9	Bromomethane	7.40	7.40	ppb	U
75-00-3	Chloroethane	5.00	**827**	ppb	
75-69-4	Trichlorofluoromethane	6.40	6.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	5.20	5.20	ppb	U
75-35-4	1,1-Dichloroethene	9.60	9.60	ppb	U
67-64-1	Acetone	26.0	26.0	ppb	U
75-15-0	Carbon disulfide	4.20	4.20	ppb	U
75-09-2	Methylene Chloride	6.00	**123**	ppb	
156-60-5	t-1,2-Dichloroethene	5.60	5.60	ppb	U
1634-04-4	Methyl t-butyl ether	4.60	4.60	ppb	U
75-34-3	1,1-Dichloroethane	3.60	**1740**	ppb	
590-20-7	2,2-Dichloropropane	7.40	7.40	ppb	U
156-59-2	c-1,2-Dichloroethene	6.80	6.80	ppb	U
78-93-3	2-Butanone	16.4	16.4	ppb	U
74-97-5	Bromochloromethane	5.20	5.20	ppb	U
67-66-3	Chloroform	5.20	5.20	ppb	U
71-55-6	1,1,1-Trichloroethane	6.20	**246**	ppb	
56-23-5	Carbon Tetrachloride	6.80	6.80	ppb	U
563-58-6	1,1-Dichloropropene	13.6	13.6	ppb	U
71-43-2	Benzene	2.80	2.80	ppb	U
107-06-2	1,2-Dichloroethane	3.80	3.80	ppb	U
79-01-6	Trichloroethene	5.40	5.40	ppb	U
78-87-5	1,2-Dichloropropane	2.40	2.40	ppb	U
74-95-3	Dibromomethane	6.20	6.20	ppb	U
75-27-4	Bromodichloromethane	2.40	2.40	ppb	U
110-75-8	2-Chloroethylvinylether	7.40	7.40	ppb	U
10061-01-5	c-1,3-Dichloropropene	3.80	3.80	ppb	U
108-10-1	4-Methyl-2-pentanone	9.00	9.00	ppb	U
108-88-3	Toluene	3.20	**37.6**	ppb	
10061-02-6	t-1,3-Dichloropropene	3.20	3.20	ppb	U
79-00-5	1,1,2-Trichloroethane	7.40	7.40	ppb	U

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Sample: K8056-3...continue

Client Sample ID: SMP-4 Collected: 10/19/2000 11:00

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/31/2000

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	5.60	5.60	ppb	U
142-28-9	1,3-Dichloropropane	2.20	2.20	ppb	U
591-78-6	2-Hexanone	9.80	9.80	ppb	U
124-48-1	Dibromochloromethane	3.60	3.60	ppb	U
106-93-4	1,2-Dibromoethane	2.80	2.80	ppb	U
108-90-7	Chlorobenzene	4.20	4.20	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	6.40	6.40	ppb	U
100-41-4	Ethylbenzene	4.20	4.20	ppb	U
108-38-3	m,p-xylene	9.00	9.00	ppb	U
95-47-6	o-xylene	5.40	5.40	ppb	U
100-42-5	Styrene	5.60	5.60	ppb	U
75-25-2	Bromoform	4.00	4.00	ppb	U
98-82-8	Isopropylbenzene	4.20	4.20	ppb	U
108-86-1	Bromobenzene	3.80	3.80	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	2.80	2.80	ppb	U
103-65-1	n-Propylbenzene	5.60	5.60	ppb	U
96-18-4	1,2,3-Trichloropropane	8.80	8.80	ppb	U
622-96-8	p-Ethyltoluene	6.80	6.80	ppb	U
108-67-8	1,3,5-Trimethylbenzene	6.00	6.00	ppb	U
95-49-8	2-Chlorotoluene	5.40	5.40	ppb	U
106-43-4	4-Chlorotoluene	2.80	2.80	ppb	U
98-06-6	tert-Butylbenzene	5.80	5.80	ppb	U
95-63-6	1,2,4-Trimethylbenzene	5.00	5.00	ppb	U
135-98-8	sec-Butylbenzene	5.00	5.00	ppb	U
99-87-6	4-Isopropyltoluene	6.20	6.20	ppb	U
541-73-1	1,3-Dichlorobenzene	2.20	2.20	ppb	U
106-46-7	1,4-Dichlorobenzene	2.80	2.80	ppb	U
95-50-1	1,2-Dichlorobenzene	3.80	3.80	ppb	U
105-05-5	p-Diethylbenzene	6.40	6.40	ppb	U
104-51-8	n-Butylbenzene	5.40	5.40	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	3.80	3.80	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	8.40	8.40	ppb	U
120-82-1	1,2,4-Trichlorobenzene	5.40	5.40	ppb	U
87-68-3	Hexachlorobutadiene	6.40	6.40	ppb	U
91-20-3	Naphthalene	3.60	3.60	ppb	U

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Sample: K8056-3...continue

Client Sample ID: SMP-4 Collected: 10/19/2000 11:00
Matrix: Liquid Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/31/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	2.60	2.60	ppb	U

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EPA 8260B

Sample: K8056-4

Client Sample ID: DMP-4 Collected: 10/19/2000 10:45

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 10/27/2000

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	5.00	5.00	ppb	U
75-45-6	Chlorodifluoromethane	7.80	7.80	ppb	U
74-87-3	Chloromethane	3.60	3.60	ppb	U
75-01-4	Vinyl Chloride	3.50	3.50	ppb	U
74-83-9	Bromomethane	2.50	2.50	ppb	U
75-00-3	Chloroethane	25.0	**2580**	ppb	
75-69-4	Trichlorofluoromethane	2.80	2.80	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	4.70	4.70	ppb	U
75-35-4	1,1-Dichloroethene	2.10	2.10	ppb	U
67-64-1	Acetone	18.9	18.9	ppb	U
75-15-0	Carbon disulfide	1.50	1.50	ppb	U
75-09-2	Methylene Chloride	2.00	**16.6**	ppb	
156-60-5	t-1,2-Dichloroethene	2.70	2.70	ppb	U
1634-04-4	Methyl t-butyl ether	2.50	2.50	ppb	U
75-34-3	1,1-Dichloroethane	1.40	**20.1**	ppb	
590-20-7	2,2-Dichloropropane	2.80	2.80	ppb	U
156-59-2	c-1,2-Dichloroethene	1.90	1.90	ppb	U
78-93-3	2-Butanone	10.2	10.2	ppb	U
74-97-5	Bromochloromethane	1.40	1.40	ppb	U
67-66-3	Chloroform	1.30	1.30	ppb	U
71-55-6	1,1,1-Trichloroethane	1.10	**130**	ppb	
56-23-5	Carbon Tetrachloride	1.80	1.80	ppb	U
563-58-6	1,1-Dichloropropene	5.00	5.00	ppb	U
71-43-2	Benzene	1.40	1.40	ppb	U
107-06-2	1,2-Dichloroethane	1.60	1.60	ppb	U
79-01-6	Trichloroethene	1.70	1.70	ppb	U
78-87-5	1,2-Dichloropropane	1.60	1.60	ppb	U
74-95-3	Dibromomethane	2.10	2.10	ppb	U
75-27-4	Bromodichloromethane	1.80	1.80	ppb	U
110-75-8	2-Chloroethylvinylether	3.10	3.10	ppb	U
10061-01-5	c-1,3-Dichloropropene	1.80	1.80	ppb	U
108-10-1	4-Methyl-2-pentanone	5.10	5.10	ppb	U
108-88-3	Toluene	1.60	**7.50**	ppb	
10061-02-6	t-1,3-Dichloropropene	1.80	1.80	ppb	U
79-00-5	1,1,2-Trichloroethane	3.10	3.10	ppb	U

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Sample: K8056-4...continue

Client Sample ID: DMP-4
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 10/27/2000

Type: Grab

Collected: 10/19/2000 10:45

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	0.80	0.80	ppb	U
142-28-9	1,3-Dichloropropane	2.10	2.10	ppb	U
591-78-6	2-Hexanone	8.90	8.90	ppb	U
124-48-1	Dibromochloromethane	0.80	0.80	ppb	U
106-93-4	1,2-Dibromoethane	1.50	1.50	ppb	U
108-90-7	Chlorobenzene	0.70	0.70	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	1.40	1.40	ppb	U
100-41-4	Ethylbenzene	1.70	1.70	ppb	U
108-38-3	m,p-xylene	1.70	1.70	ppb	U
95-47-6	o-xylene	0.80	0.80	ppb	U
100-42-5	Styrene	0.80	0.80	ppb	U
75-25-2	Bromoform	1.20	1.20	ppb	U
98-82-8	Isopropylbenzene	1.00	1.00	ppb	U
108-86-1	Bromobenzene	1.00	1.00	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	1.30	1.30	ppb	U
103-65-1	n-Propylbenzene	1.40	1.40	ppb	U
96-18-4	1,2,3-Trichloropropane	4.40	4.40	ppb	U
622-96-8	p-Ethyltoluene	2.40	2.40	ppb	U
108-67-8	1,3,5-Trimethylbenzene	1.20	1.20	ppb	U
95-49-8	2-Chlorotoluene	1.70	**44.5**	ppb	
106-43-4	4-Chlorotoluene	1.60	1.60	ppb	U
98-06-6	tert-Butylbenzene	1.30	1.30	ppb	U
95-63-6	1,2,4-Trimethylbenzene	1.30	**15.9**	ppb	
135-98-8	sec-Butylbenzene	0.40	0.40	ppb	U
99-87-6	4-Isopropyltoluene	1.00	1.00	ppb	U
541-73-1	1,3-Dichlorobenzene	1.00	1.00	ppb	U
106-46-7	1,4-Dichlorobenzene	1.50	1.50	ppb	U
95-50-1	1,2-Dichlorobenzene	1.30	1.30	ppb	U
105-05-5	p-Diethylbenzene	2.70	2.70	ppb	U
104-51-8	n-Butylbenzene	1.40	1.40	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	2.70	2.70	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	5.00	ppb	U
120-82-1	1,2,4-Trichlorobenzene	2.50	2.50	ppb	U
87-68-3	Hexachlorobutadiene	2.40	2.40	ppb	U
91-20-3	Naphthalene	2.70	2.70	ppb	U

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Sample: K8056-4...continue

Client Sample ID: DMP-4
Collected: 10/19/2000 10:45
Matrix: Liquid
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/27/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	3.80	3.80	ppb	U

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Sample: K8056-5
Client Sample ID: MW-7
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 11/01/2000

Collected: 10/19/2000 12:00
Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.44	0.44	ppb	U
75-45-6	Chlorodifluoromethane	0.92	0.92	ppb	U
74-87-3	Chloromethane	0.76	0.76	ppb	U
75-01-4	Vinyl Chloride	0.82	**67.1**	ppb	
74-83-9	Bromomethane	0.74	0.74	ppb	U
75-00-3	Chloroethane	0.50	**181**	ppb	
75-69-4	Trichlorofluoromethane	0.64	0.64	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	0.52	0.52	ppb	U
75-35-4	1,1-Dichloroethene	0.96	0.96	ppb	U
67-64-1	Acetone	2.60	**52.2**	ppb	
75-15-0	Carbon disulfide	0.42	0.42	ppb	U
75-09-2	Methylene Chloride	0.60	**6.00**	ppb	
156-60-5	t-1,2-Dichloroethene	0.56	0.56	ppb	U
1634-04-4	Methyl t-butyl ether	0.46	0.46	ppb	U
75-34-3	1,1-Dichloroethane	0.36	**214**	ppb	
590-20-7	2,2-Dichloropropane	0.74	0.74	ppb	U
156-59-2	c-1,2-Dichloroethene	0.68	**283**	ppb	
78-93-3	2-Butanone	1.64	1.64	ppb	U
74-97-5	Bromochloromethane	0.52	0.52	ppb	U
67-66-3	Chloroform	0.52	0.52	ppb	U
71-55-6	1,1,1-Trichloroethane	0.62	0.62	ppb	U
56-23-5	Carbon Tetrachloride	0.68	0.68	ppb	U
563-58-6	1,1-Dichloropropene	1.36	1.36	ppb	U
71-43-2	Benzene	0.28	**3.50**	ppb	
107-06-2	1,2-Dichloroethane	0.38	0.38	ppb	U
79-01-6	Trichloroethene	0.54	**19.3**	ppb	
78-87-5	1,2-Dichloropropane	0.24	0.24	ppb	U
74-95-3	Dibromomethane	0.62	0.62	ppb	U
75-27-4	Bromodichloromethane	0.24	0.24	ppb	U
110-75-8	2-Chloroethylvinylether	0.74	0.74	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.38	0.38	ppb	U
108-10-1	4-Methyl-2-pentanone	0.90	0.90	ppb	U
108-88-3	Toluene	0.32	**8.40**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.32	0.32	ppb	U
79-00-5	1,1,2-Trichloroethane	0.74	0.74	ppb	U

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Sample: K8056-5...continue

Client Sample ID: MW-7 Collected: 10/19/2000 12:00

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 11/01/2000

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	0.56	0.56	ppb	U
142-28-9	1,3-Dichloropropane	0.22	0.22	ppb	U
591-78-6	2-Hexanone	0.98	0.98	ppb	U
124-48-1	Dibromochloromethane	0.36	0.36	ppb	U
106-93-4	1,2-Dibromoethane	0.28	0.28	ppb	U
108-90-7	Chlorobenzene	0.42	0.42	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.64	0.64	ppb	U
100-41-4	Ethylbenzene	0.42	0.42	ppb	U
108-38-3	m,p-xylene	0.90	0.90	ppb	U
95-47-6	o-xylene	0.54	0.54	ppb	U
100-42-5	Styrene	0.56	0.56	ppb	U
75-25-2	Bromoform	0.40	0.40	ppb	U
98-82-8	Isopropylbenzene	0.42	0.42	ppb	U
108-86-1	Bromobenzene	0.38	0.38	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.28	0.28	ppb	U
103-65-1	n-Propylbenzene	0.56	0.56	ppb	U
96-18-4	1,2,3-Trichloropropane	0.88	0.88	ppb	U
622-96-8	p-Ethyltoluene	0.68	0.68	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.60	0.60	ppb	U
95-49-8	2-Chlorotoluene	0.54	**5.20**	ppb	
106-43-4	4-Chlorotoluene	0.28	0.28	ppb	U
98-06-6	tert-Butylbenzene	0.58	0.58	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.50	0.50	ppb	U
135-98-8	sec-Butylbenzene	0.50	0.50	ppb	U
99-87-6	4-Isopropyltoluene	0.62	0.62	ppb	U
541-73-1	1,3-Dichlorobenzene	0.22	0.22	ppb	U
106-46-7	1,4-Dichlorobenzene	0.28	0.28	ppb	U
95-50-1	1,2-Dichlorobenzene	0.38	0.38	ppb	U
105-05-5	p-Diethylbenzene	0.64	0.64	ppb	U
104-51-8	n-Butylbenzene	0.54	0.54	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	0.38	0.38	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.84	0.84	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.54	0.54	ppb	U
87-68-3	Hexachlorobutadiene	0.64	0.64	ppb	U
91-20-3	Naphthalene	0.36	0.36	ppb	U

Environmental Testing Laboratories, Inc.

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11/01/2000

EPA 8260B

Sample: K8056-5...continue

Client Sample ID: MW-7 Collected: 10/19/2000 12:00

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 11/01/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	0.26	0.26	ppb	U

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11/01/2000

EPA 8260B

Sample: K8056-6

Client Sample ID: MW-14 Collected: 10/19/2000 14:00

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 11/01/2000

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	1.10	1.10	ppb	U
75-45-6	Chlorodifluoromethane	2.30	2.30	ppb	U
74-87-3	Chloromethane	1.90	1.90	ppb	U
75-01-4	Vinyl Chloride	2.05	**10.6**	ppb	
74-83-9	Bromomethane	1.85	1.85	ppb	U
75-00-3	Chloroethane	1.25	1.25	ppb	U
75-69-4	Trichlorofluoromethane	1.60	1.60	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	1.30	ppb	U
75-35-4	1,1-Dichloroethene	2.40	**6.30**	ppb	
67-64-1	Acetone	6.50	**170**	ppb	
75-15-0	Carbon disulfide	1.05	1.05	ppb	U
75-09-2	Methylene Chloride	1.50	1.50	ppb	U
156-60-5	t-1,2-Dichloroethene	1.40	1.40	ppb	U
1634-04-4	Methyl t-butyl ether	1.15	1.15	ppb	U
75-34-3	1,1-Dichloroethane	0.90	**216**	ppb	
590-20-7	2,2-Dichloropropane	1.85	1.85	ppb	U
156-59-2	c-1,2-Dichloroethene	1.70	1.70	ppb	U
78-93-3	2-Butanone	4.10	**75.3**	ppb	
74-97-5	Bromochloromethane	1.30	1.30	ppb	U
67-66-3	Chloroform	1.30	1.30	ppb	U
71-55-6	1,1,1-Trichloroethane	1.55	1.55	ppb	U
56-23-5	Carbon Tetrachloride	1.70	1.70	ppb	U
563-58-6	1,1-Dichloropropene	3.40	3.40	ppb	U
71-43-2	Benzene	0.70	0.70	ppb	U
107-06-2	1,2-Dichloroethane	0.95	0.95	ppb	U
79-01-6	Trichloroethene	1.35	1.35	ppb	U
78-87-5	1,2-Dichloropropane	0.60	0.60	ppb	U
74-95-3	Dibromomethane	1.55	1.55	ppb	U
75-27-4	Bromodichloromethane	0.60	0.60	ppb	U
110-75-8	2-Chloroethylvinylether	1.85	1.85	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.95	0.95	ppb	U
108-10-1	4-Methyl-2-pentanone	2.25	2.25	ppb	U
108-88-3	Toluene	0.80	0.80	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.80	0.80	ppb	U
79-00-5	1,1,2-Trichloroethane	1.85	1.85	ppb	U

Environmental Testing Laboratories, Inc.
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11/01/2000

EPA 8260B

Sample: K8056-6...continue

Client Sample ID: MW-14
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 11/01/2000

Type: Grab

Collected: 10/19/2000 14:00

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	1.40	1.40	ppb	U
142-28-9	1,3-Dichloropropane	0.55	0.55	ppb	U
591-78-6	2-Hexanone	2.45	2.45	ppb	U
124-48-1	Dibromochloromethane	0.90	0.90	ppb	U
106-93-4	1,2-Dibromoethane	0.70	0.70	ppb	U
108-90-7	Chlorobenzene	1.05	1.05	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	1.60	1.60	ppb	U
100-41-4	Ethylbenzene	1.05	1.05	ppb	U
108-38-3	m,p-xylene	2.25	2.25	ppb	U
95-47-6	o-xylene	1.35	1.35	ppb	U
100-42-5	Styrene	1.40	1.40	ppb	U
75-25-2	Bromoform	1.00	1.00	ppb	U
98-82-8	Isopropylbenzene	1.05	1.05	ppb	U
108-86-1	Bromobenzene	0.95	0.95	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.70	0.70	ppb	U
103-65-1	n-Propylbenzene	1.40	1.40	ppb	U
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.70	1.70	ppb	U
108-67-8	1,3,5-Trimethylbenzene	1.50	1.50	ppb	U
95-49-8	2-Chlorotoluene	1.35	1.35	ppb	U
106-43-4	4-Chlorotoluene	0.70	0.70	ppb	U
98-06-6	tert-Butylbenzene	1.45	1.45	ppb	U
95-63-6	1,2,4-Trimethylbenzene	1.25	1.25	ppb	U
135-98-8	sec-Butylbenzene	1.25	1.25	ppb	U
99-87-6	4-Isopropyltoluene	1.55	1.55	ppb	U
541-73-1	1,3-Dichlorobenzene	0.55	0.55	ppb	U
106-46-7	1,4-Dichlorobenzene	0.70	0.70	ppb	U
95-50-1	1,2-Dichlorobenzene	0.95	0.95	ppb	U
105-05-5	p-Diethylbenzene	1.60	1.60	ppb	U
104-51-8	n-Butylbenzene	1.35	1.35	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	0.95	0.95	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.10	2.10	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.35	1.35	ppb	U
87-68-3	Hexachlorobutadiene	1.60	1.60	ppb	U
91-20-3	Naphthalene	0.90	0.90	ppb	U

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11/01/2000

EPA 8260B

Sample: K8056-6...continue

Client Sample ID: MW-14 Collected: 10/19/2000 14:00

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 11/01/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	0.65	0.65	ppb	U

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11/01/2000

Iron-Total

Sample: K8056-1

Client Sample ID: SMP-3 Collected: 10/19/2000 09:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**5.91**	ppm	

Sample: K8056-2

Client Sample ID: DMP-3 Collected: 10/19/2000 09:30

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**66.8**	ppm	

Sample: K8056-3

Client Sample ID: SMP-4 Collected: 10/19/2000 11:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**38.9**	ppm	

Sample: K8056-4

Client Sample ID: DMP-4 Collected: 10/19/2000 10:45

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**39.2**	ppm	

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11/01/2000

Iron-Total

Sample: K8056-5

Client Sample ID: MW-7 Collected: 10/19/2000 12:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**1.84**	ppm	

Sample: K8056-6

Client Sample ID: MW-14 Collected: 10/19/2000 14:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	0.26	**13.2**	ppm	

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11/01/2000

Nitrogen/Nitrate

Sample: K8056-1
Client Sample ID: SMP-3 Collected: 10/19/2000 09:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/27/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.015	ppm	U

Sample: K8056-2
Client Sample ID: DMP-3 Collected: 10/19/2000 09:30
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/27/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.93**	ppm	

Sample: K8056-3
Client Sample ID: SMP-4 Collected: 10/19/2000 11:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/27/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.015	ppm	U

Sample: K8056-4
Client Sample ID: DMP-4 Collected: 10/19/2000 10:45
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/27/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.22**	ppm	

CTI

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11/01/2000

Nitrogen/Nitrate

Sample: K8056-5
Client Sample ID: MW-7 Collected: 10/19/2000 12:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/27/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.015	ppm	U

Sample: K8056-6
Client Sample ID: MW-14 Collected: 10/19/2000 14:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/27/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.15**	ppm	

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11/01/2000

Sulfate by EPA Method 375.4

Sample: K8056-1
Client Sample ID: SMP-3 Collected: 10/19/2000 09:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	NA	**392**	ppm	

Sample: K8056-2
Client Sample ID: DMP-3 Collected: 10/19/2000 09:30
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.31	**186**	ppm	

Sample: K8056-3
Client Sample ID: SMP-4 Collected: 10/19/2000 11:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	1.56	**470**	ppm	

Sample: K8056-4
Client Sample ID: DMP-4 Collected: 10/19/2000 10:45
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.31	**171**	ppm	

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11/01/2000

Sulfate by EPA Method 375.4

Sample: K8056-5

Client Sample ID: MW-7 Collected: 10/19/2000 12:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.31	**117**	ppm	

Sample: K8056-6

Client Sample ID: MW-14 Collected: 10/19/2000 14:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 10/26/2000

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.39	**779**	ppm	

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11/01/2000

Total Organic Carbon (TOC)-Method 415.1

Sample: K8056-1
Client Sample ID: SMP-3 Collected: 10/19/2000 09:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/30/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**432**	ppm	

Sample: K8056-2
Client Sample ID: DMP-3 Collected: 10/19/2000 09:30
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/30/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**88.6**	ppm	

Sample: K8056-3
Client Sample ID: SMP-4 Collected: 10/19/2000 11:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/30/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**60.4**	ppm	

Sample: K8056-4
Client Sample ID: DMP-4 Collected: 10/19/2000 10:45
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/30/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**52.4**	ppm	

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11/01/2000

Total Organic Carbon (TOC)-Method 415.1

Sample: K8056-5

Client Sample ID: MW-7 Collected: 10/19/2000 12:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/30/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**53.1**	ppm	

Sample: K8056-6

Client Sample ID: MW-14 Collected: 10/19/2000 14:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 10/30/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**868**	ppm	

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11/01/2000

Case Narrative

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone
2-Butanone
4-Methyl-2-pentanone
2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by: _____

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

11/01/2000

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

ETL
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208 Route 109 • Farmingdale • New York 11735
516-249-1456 • Fax: 516-249-8344

CHAIN OF CUSTODY DOCUMENT

P.O. # DSO-131821

K 8056

Project Name: PhotoCircuits | Project Manager: CHARLIE NEHAFES | Sampler (Signature): | (Print):

Project Address: 31 Sea Cliff Ave.

Client: Photocirc. J/N: ☐ Rush by / /

SAMPLE INFO Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank. Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe. *Air - Vol. (Liters) include: Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location	Total. # Cont.	601/602	BTX/BTEX	MTBE	624/8260/8021	625/8270/BN	PCB/Pesticides	Pet.Prods./8100M	RCRA Metals	pH/Flash/React	418.1 - TRPH	TOC	Vol. [illegible]	Nitrate	Sulfate	Lead		
1	10/19	0900	GW	GW	SMP-3	6											+	X	X	X	X		
2	10/19	0930	↓	↓	DMP-3	6											+	X	X	X	X		
3	10/19	1100	↓	↓	SMP-4	6											+	X	X	X	X		
4	10/19	1015	↓	↓	DMP-4	6											–	X	X	X	X		
5	10/19	1200	↓	↓	MW-7	6											–	X	X	X	X		
6	10/19	1400			MW-14	6											–	X	X	X	X		
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received for Lab by (Signature):	Date 10/20 / Time [illegible]	Printed Name
			[signature]		[illegible]

Comments & Special Instructions: | QA/QC [illegible] | Number & Type of Containers: [illegible] 250 P HNO3 | Preservatives: | Temp.:

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

01/16/2001

Custody Document: K2390

Received: 12/21/2000 10:45
Sampled by: David Hanny

Client: Photo Circuits

31 Sea Cliff Avenue
Glen Cove,
NY 11542

Project: Photocircuits Corp.

31 Sea Cliff Avenue
Glen Cove,
NY

Manager: Matt Gallon

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

01/16/2001

EPA 8260B

Sample: K2390-1

Client Sample ID: MW-7 Collected: 12/20/2000 15:20
Matrix: Liquid Type: Grab
Remarks: See Case Narrative
Analyzed Date: 12/27/2000

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.50	2.50	ppb	U
75-45-6	Chlorodifluoromethane	3.90	3.90	ppb	U
74-87-3	Chloromethane	1.80	1.80	ppb	U
75-01-4	Vinyl Chloride	1.75	**139**	ppb	
74-83-9	Bromomethane	1.25	1.25	ppb	U
75-00-3	Chloroethane	1.65	**201**	ppb	
75-69-4	Trichlorofluoromethane	1.40	1.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.35	2.35	ppb	U
75-35-4	1,1-Dichloroethene	1.05	1.05	ppb	U
67-64-1	Acetone	9.45	9.45	ppb	U
75-15-0	Carbon disulfide	0.75	0.75	ppb	U
75-09-2	Methylene Chloride	1.00	1.00	ppb	U
156-60-5	t-1,2-Dichloroethene	1.35	1.35	ppb	U
1634-04-4	Methyl t-butyl ether	1.25	1.25	ppb	U
75-34-3	1,1-Dichloroethane	0.70	**268**	ppb	
590-20-7	2,2-Dichloropropane	1.40	1.40	ppb	U
156-59-2	c-1,2-Dichloroethene	0.95	**355**	ppb	
78-93-3	2-Butanone	5.10	5.10	ppb	U
74-97-5	Bromochloromethane	0.70	0.70	ppb	U
67-66-3	Chloroform	0.65	0.65	ppb	U
71-55-6	1,1,1-Trichloroethane	0.55	0.55	ppb	U
56-23-5	Carbon Tetrachloride	0.90	0.90	ppb	U
563-58-6	1,1-Dichloropropene	2.50	2.50	ppb	U
71-43-2	Benzene	0.70	0.70	ppb	U
107-06-2	1,2-Dichloroethane	0.80	0.80	ppb	U
79-01-6	Trichloroethene	0.85	0.85	ppb	U
78-87-5	1,2-Dichloropropane	0.80	0.80	ppb	U
74-95-3	Dibromomethane	1.05	1.05	ppb	U
75-27-4	Bromodichloromethane	0.90	0.90	ppb	U
110-75-8	2-Chloroethylvinylether	1.55	1.55	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.90	0.90	ppb	U
108-10-1	4-Methyl-2-pentanone	2.55	2.55	ppb	U
108-88-3	Toluene	0.80	**8.30**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.90	0.90	ppb	U
79-00-5	1,1,2-Trichloroethane	1.55	1.55	ppb	U

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Sample: K2390-1...continue

Client Sample ID: MW-7
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/27/2000

Type: Grab

Collected: 12/20/2000 15:20

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	0.40	0.40	ppb	U
142-28-9	1,3-Dichloropropane	1.05	1.05	ppb	U
591-78-6	2-Hexanone	4.45	4.45	ppb	U
124-48-1	Dibromochloromethane	0.40	0.40	ppb	U
106-93-4	1,2-Dibromoethane	0.75	0.75	ppb	U
108-90-7	Chlorobenzene	0.35	0.35	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.70	0.70	ppb	U
100-41-4	Ethylbenzene	0.85	0.85	ppb	U
108-38-3	m,p-xylene	0.85	0.85	ppb	U
95-47-6	o-xylene	0.40	0.40	ppb	U
100-42-5	Styrene	0.40	0.40	ppb	U
75-25-2	Bromoform	0.60	0.60	ppb	U
98-82-8	Isopropylbenzene	0.50	0.50	ppb	U
108-86-1	Bromobenzene	0.50	0.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.65	0.65	ppb	U
103-65-1	n-Propylbenzene	0.70	0.70	ppb	U
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.20	1.20	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.60	0.60	ppb	U
95-49-8	2-Chlorotoluene	0.85	0.85	ppb	U
106-43-4	4-Chlorotoluene	0.80	0.80	ppb	U
98-06-6	tert-Butylbenzene	0.65	0.65	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.65	0.65	ppb	U
135-98-8	sec-Butylbenzene	0.20	0.20	ppb	U
99-87-6	4-Isopropyltoluene	0.50	0.50	ppb	U
541-73-1	1,3-Dichlorobenzene	0.50	0.50	ppb	U
106-46-7	1,4-Dichlorobenzene	0.75	0.75	ppb	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	ppb	U
105-05-5	p-Diethylbenzene	1.35	1.35	ppb	U
104-51-8	n-Butylbenzene	0.70	0.70	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	1.35	1.35	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.50	2.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.25	1.25	ppb	U
87-68-3	Hexachlorobutadiene	1.20	1.20	ppb	U
91-20-3	Naphthalene	1.35	1.35	ppb	U

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Sample: K2390-1...continue

Client Sample ID: MW-7
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/27/2000

Type: Grab

Collected: 12/20/2000 15:20

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	1.90	1.90	ppb	U

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Sample: K2390-2
Client Sample ID: MW-14
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/27/2000

Type: Grab

Collected: 12/20/2000 16:00

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.50	2.50	ppb	U
75-45-6	Chlorodifluoromethane	3.90	3.90	ppb	U
74-87-3	Chloromethane	1.80	1.80	ppb	U
75-01-4	Vinyl Chloride	1.75	1.75	ppb	U
74-83-9	Bromomethane	1.25	1.25	ppb	U
75-00-3	Chloroethane	1.65	1.65	ppb	U
75-69-4	Trichlorofluoromethane	1.40	1.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.35	2.35	ppb	U
75-35-4	1,1-Dichloroethene	1.05	1.05	ppb	U
67-64-1	Acetone	9.45	**126**	ppb	
75-15-0	Carbon disulfide	0.75	0.75	ppb	U
75-09-2	Methylene Chloride	1.00	1.00	ppb	U
156-60-5	t-1,2-Dichloroethene	1.35	1.35	ppb	U
1634-04-4	Methyl t-butyl ether	1.25	1.25	ppb	U
75-34-3	1,1-Dichloroethane	0.70	**293**	ppb	
590-20-7	2,2-Dichloropropane	1.40	1.40	ppb	U
156-59-2	c-1,2-Dichloroethene	0.95	0.95	ppb	U
78-93-3	2-Butanone	5.10	5.10	ppb	U
74-97-5	Bromochloromethane	0.70	0.70	ppb	U
67-66-3	Chloroform	0.65	0.65	ppb	U
71-55-6	1,1,1-Trichloroethane	0.55	**8.90**	ppb	
56-23-5	Carbon Tetrachloride	0.90	0.90	ppb	U
563-58-6	1,1-Dichloropropene	2.50	2.50	ppb	U
71-43-2	Benzene	0.70	0.70	ppb	U
107-06-2	1,2-Dichloroethane	0.80	0.80	ppb	U
79-01-6	Trichloroethene	0.85	0.85	ppb	U
78-87-5	1,2-Dichloropropane	0.80	0.80	ppb	U
74-95-3	Dibromomethane	1.05	1.05	ppb	U
75-27-4	Bromodichloromethane	0.90	0.90	ppb	U
110-75-8	2-Chloroethylvinylether	1.55	1.55	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.90	0.90	ppb	U
108-10-1	4-Methyl-2-pentanone	2.55	2.55	ppb	U
108-88-3	Toluene	0.80	0.80	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.90	0.90	ppb	U
79-00-5	1,1,2-Trichloroethane	1.55	1.55	ppb	U

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Sample: K2390-2...continue
Client Sample ID: MW-14
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/27/2000

Type: Grab

Collected: 12/20/2000 16:00

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	0.40	0.40	ppb	U
142-28-9	1,3-Dichloropropane	1.05	1.05	ppb	U
591-78-6	2-Hexanone	4.45	4.45	ppb	U
124-48-1	Dibromochloromethane	0.40	0.40	ppb	U
106-93-4	1,2-Dibromoethane	0.75	0.75	ppb	U
108-90-7	Chlorobenzene	0.35	0.35	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.70	0.70	ppb	U
100-41-4	Ethylbenzene	0.85	0.85	ppb	U
108-38-3	m,p-xylene	0.85	0.85	ppb	U
95-47-6	o-xylene	0.40	0.40	ppb	U
100-42-5	Styrene	0.40	0.40	ppb	U
75-25-2	Bromoform	0.60	0.60	ppb	U
98-82-8	Isopropylbenzene	0.50	0.50	ppb	U
108-86-1	Bromobenzene	0.50	0.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.65	0.65	ppb	U
103-65-1	n-Propylbenzene	0.70	0.70	ppb	U
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.20	1.20	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.60	0.60	ppb	U
95-49-8	2-Chlorotoluene	0.85	0.85	ppb	U
106-43-4	4-Chlorotoluene	0.80	0.80	ppb	U
98-06-6	tert-Butylbenzene	0.65	0.65	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.65	0.65	ppb	U
135-98-8	sec-Butylbenzene	0.20	0.20	ppb	U
99-87-6	4-Isopropyltoluene	0.50	0.50	ppb	U
541-73-1	1,3-Dichlorobenzene	0.50	0.50	ppb	U
106-46-7	1,4-Dichlorobenzene	0.75	0.75	ppb	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	ppb	U
105-05-5	p-Diethylbenzene	1.35	1.35	ppb	U
104-51-8	n-Butylbenzene	0.70	0.70	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	1.35	1.35	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.50	2.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.25	1.25	ppb	U
87-68-3	Hexachlorobutadiene	1.20	1.20	ppb	U
91-20-3	Naphthalene	1.35	1.35	ppb	U

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Sample: K2390-2...continue

Client Sample ID: MW-14
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/27/2000

Type: Grab

Collected: 12/20/2000 16:00

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	1.90	1.90	ppb	U

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Sample: K2390-3

Client Sample ID: SMP-1

Collected: 12/20/2000 11:25

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 12/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	61.0	61.0	ppb	U
75-45-6	Chlorodifluoromethane	41.0	41.0	ppb	U
74-87-3	Chloromethane	40.0	40.0	ppb	U
75-01-4	Vinyl Chloride	52.0	**5090**	ppb	
74-83-9	Bromomethane	30.0	30.0	ppb	U
75-00-3	Chloroethane	53.0	53.0	ppb	U
75-69-4	Trichlorofluoromethane	35.0	35.0	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	31.0	31.0	ppb	U
75-35-4	1,1-Dichloroethene	27.0	27.0	ppb	U
67-64-1	Acetone	166	166	ppb	U
75-15-0	Carbon disulfide	37.0	37.0	ppb	U
75-09-2	Methylene Chloride	56.0	56.0	ppb	U
156-60-5	t-1,2-Dichloroethene	40.0	40.0	ppb	U
1634-04-4	Methyl t-butyl ether	25.0	25.0	ppb	U
75-34-3	1,1-Dichloroethane	50.0	**628**	ppb	
590-20-7	2,2-Dichloropropane	39.0	39.0	ppb	U
156-59-2	c-1,2-Dichloroethene	27.0	**30100**	ppb	E
78-93-3	2-Butanone	68.0	68.0	ppb	U
74-97-5	Bromochloromethane	24.0	24.0	ppb	U
67-66-3	Chloroform	34.0	34.0	ppb	U
71-55-6	1,1,1-Trichloroethane	34.0	34.0	ppb	U
56-23-5	Carbon Tetrachloride	27.0	27.0	ppb	U
563-58-6	1,1-Dichloropropene	21.0	21.0	ppb	U
71-43-2	Benzene	34.0	34.0	ppb	U
107-06-2	1,2-Dichloroethane	17.0	17.0	ppb	U
79-01-6	Trichloroethene	28.0	**860**	ppb	
78-87-5	1,2-Dichloropropane	17.0	17.0	ppb	U
74-95-3	Dibromomethane	30.0	30.0	ppb	U
75-27-4	Bromodichloromethane	14.0	14.0	ppb	U
110-75-8	2-Chloroethylvinylether	80.0	80.0	ppb	U
10061-01-5	c-1,3-Dichloropropene	19.0	19.0	ppb	U
108-10-1	4-Methyl-2-pentanone	37.0	37.0	ppb	U
108-88-3	Toluene	19.0	19.0	ppb	U
10061-02-6	t-1,3-Dichloropropene	21.0	21.0	ppb	U
79-00-5	1,1,2-Trichloroethane	22.0	22.0	ppb	U

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Sample: K2390-3...continue

Client Sample ID: SMP-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/23/2000

Type: Grab

Collected: 12/20/2000 11:25

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	22.0	22.0	ppb	U
142-28-9	1,3-Dichloropropane	20.0	20.0	ppb	U
591-78-6	2-Hexanone	92.0	92.0	ppb	U
124-48-1	Dibromochloromethane	21.0	21.0	ppb	U
106-93-4	1,2-Dibromoethane	30.0	30.0	ppb	U
108-90-7	Chlorobenzene	22.0	22.0	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	15.0	15.0	ppb	U
100-41-4	Ethylbenzene	29.0	29.0	ppb	U
108-38-3	m,p-xylene	36.0	36.0	ppb	U
95-47-6	o-xylene	18.0	18.0	ppb	U
100-42-5	Styrene	20.0	20.0	ppb	U
75-25-2	Bromoform	30.0	30.0	ppb	U
98-82-8	Isopropylbenzene	13.0	13.0	ppb	U
108-86-1	Bromobenzene	16.0	16.0	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	28.0	28.0	ppb	U
103-65-1	n-Propylbenzene	17.0	17.0	ppb	U
96-18-4	1,2,3-Trichloropropane	77.0	77.0	ppb	U
622-96-8	p-Ethyltoluene	20.0	20.0	ppb	U
108-67-8	1,3,5-Trimethylbenzene	20.0	20.0	ppb	U
95-49-8	2-Chlorotoluene	25.0	25.0	ppb	U
106-43-4	4-Chlorotoluene	24.0	24.0	ppb	U
98-06-6	tert-Butylbenzene	19.0	19.0	ppb	U
95-63-6	1,2,4-Trimethylbenzene	15.0	15.0	ppb	U
135-98-8	sec-Butylbenzene	19.0	19.0	ppb	U
99-87-6	4-Isopropyltoluene	13.0	13.0	ppb	U
541-73-1	1,3-Dichlorobenzene	12.0	12.0	ppb	U
106-46-7	1,4-Dichlorobenzene	21.0	21.0	ppb	U
95-50-1	1,2-Dichlorobenzene	16.0	16.0	ppb	U
105-05-5	p-Diethylbenzene	16.0	16.0	ppb	U
104-51-8	n-Butylbenzene	14.0	14.0	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	15.0	15.0	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	67.0	67.0	ppb	U
120-82-1	1,2,4-Trichlorobenzene	10.0	10.0	ppb	U
87-68-3	Hexachlorobutadiene	13.0	13.0	ppb	U
91-20-3	Naphthalene	16.0	16.0	ppb	U

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Sample: K2390-3...continue

Client Sample ID: SMP-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/23/2000

Type: Grab

Collected: 12/20/2000 11:25

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	9.00	9.00	ppb	U

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Sample: K2390-4
Client Sample ID: DMP-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/27/2000

Type: Grab

Collected: 12/20/2000 10:45

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.50	2.50	ppb	U
75-45-6	Chlorodifluoromethane	3.90	3.90	ppb	U
74-87-3	Chloromethane	1.80	1.80	ppb	U
75-01-4	Vinyl Chloride	1.75	**40.0**	ppb	
74-83-9	Bromomethane	1.25	1.25	ppb	U
75-00-3	Chloroethane	1.65	**232**	ppb	
75-69-4	Trichlorofluoromethane	1.40	1.40	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.35	2.35	ppb	U
75-35-4	1,1-Dichloroethene	1.05	1.05	ppb	U
67-64-1	Acetone	9.45	**557**	ppb	
75-15-0	Carbon disulfide	0.75	0.75	ppb	U
75-09-2	Methylene Chloride	1.00	**22.4**	ppb	
156-60-5	t-1,2-Dichloroethene	1.35	1.35	ppb	U
1634-04-4	Methyl t-butyl ether	1.25	1.25	ppb	U
75-34-3	1,1-Dichloroethane	0.70	**357**	ppb	
590-20-7	2,2-Dichloropropane	1.40	1.40	ppb	U
156-59-2	c-1,2-Dichloroethene	0.95	**17.4**	ppb	
78-93-3	2-Butanone	5.10	5.10	ppb	U
74-97-5	Bromochloromethane	0.70	0.70	ppb	U
67-66-3	Chloroform	0.65	0.65	ppb	U
71-55-6	1,1,1-Trichloroethane	0.55	0.55	ppb	U
56-23-5	Carbon Tetrachloride	0.90	0.90	ppb	U
563-58-6	1,1-Dichloropropene	2.50	2.50	ppb	U
71-43-2	Benzene	0.70	**5.50**	ppb	
107-06-2	1,2-Dichloroethane	0.80	0.80	ppb	U
79-01-6	Trichloroethene	0.85	0.85	ppb	U
78-87-5	1,2-Dichloropropane	0.80	0.80	ppb	U
74-95-3	Dibromomethane	1.05	1.05	ppb	U
75-27-4	Bromodichloromethane	0.90	0.90	ppb	U
110-75-8	2-Chloroethylvinylether	1.55	1.55	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.90	0.90	ppb	U
108-10-1	4-Methyl-2-pentanone	2.55	2.55	ppb	U
108-88-3	Toluene	0.80	**24.1**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.90	0.90	ppb	U
79-00-5	1,1,2-Trichloroethane	1.55	1.55	ppb	U

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Sample: K2390-4...continue
Client Sample ID: DMP-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/27/2000

Type: Grab

Collected: 12/20/2000 10:45

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	0.40	0.40	ppb	U
142-28-9	1,3-Dichloropropane	1.05	1.05	ppb	U
591-78-6	2-Hexanone	4.45	4.45	ppb	U
124-48-1	Dibromochloromethane	0.40	0.40	ppb	U
106-93-4	1,2-Dibromoethane	0.75	0.75	ppb	U
108-90-7	Chlorobenzene	0.35	0.35	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.70	0.70	ppb	U
100-41-4	Ethylbenzene	0.85	0.85	ppb	U
108-38-3	m,p-xylene	0.85	0.85	ppb	U
95-47-6	o-xylene	0.40	0.40	ppb	U
100-42-5	Styrene	0.40	0.40	ppb	U
75-25-2	Bromoform	0.60	0.60	ppb	U
98-82-8	Isopropylbenzene	0.50	0.50	ppb	U
108-86-1	Bromobenzene	0.50	0.50	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.65	0.65	ppb	U
103-65-1	n-Propylbenzene	0.70	**16.9**	ppb	
96-18-4	1,2,3-Trichloropropane	2.20	2.20	ppb	U
622-96-8	p-Ethyltoluene	1.20	1.20	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.60	0.60	ppb	U
95-49-8	2-Chlorotoluene	0.85	**18.2**	ppb	
106-43-4	4-Chlorotoluene	0.80	0.80	ppb	U
98-06-6	tert-Butylbenzene	0.65	0.65	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.65	**8.40**	ppb	
135-98-8	sec-Butylbenzene	0.20	0.20	ppb	U
99-87-6	4-Isopropyltoluene	0.50	0.50	ppb	U
541-73-1	1,3-Dichlorobenzene	0.50	0.50	ppb	U
106-46-7	1,4-Dichlorobenzene	0.75	0.75	ppb	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	ppb	U
105-05-5	p-Diethylbenzene	1.35	1.35	ppb	U
104-51-8	n-Butylbenzene	0.70	0.70	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	1.35	1.35	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	2.50	2.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.25	1.25	ppb	U
87-68-3	Hexachlorobutadiene	1.20	1.20	ppb	U
91-20-3	Naphthalene	1.35	1.35	ppb	U

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01/16/2001

EPA 8260B

Sample: K2390-4...continue

Client Sample ID: DMP-1 Collected: 12/20/2000 10:45

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 12/27/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	1.90	1.90	ppb	U

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EPA 8260B

Sample: K2390-5

Client Sample ID: SMP-3 Collected: 12/20/2000 14:40

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 12/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	50.0	50.0	ppb	U
75-45-6	Chlorodifluoromethane	78.0	78.0	ppb	U
74-87-3	Chloromethane	36.0	36.0	ppb	U
75-01-4	Vinyl Chloride	35.0	35.0	ppb	U
74-83-9	Bromomethane	25.0	25.0	ppb	U
75-00-3	Chloroethane	33.0	33.0	ppb	U
75-69-4	Trichlorofluoromethane	28.0	28.0	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	47.0	47.0	ppb	U
75-35-4	1,1-Dichloroethene	21.0	21.0	ppb	U
67-64-1	Acetone	189	189	ppb	U
75-15-0	Carbon disulfide	15.0	15.0	ppb	U
75-09-2	Methylene Chloride	20.0	20.0	ppb	U
156-60-5	t-1,2-Dichloroethene	27.0	27.0	ppb	U
1634-04-4	Methyl t-butyl ether	25.0	25.0	ppb	U
75-34-3	1,1-Dichloroethane	14.0	**4770**	ppb	
590-20-7	2,2-Dichloropropane	28.0	28.0	ppb	U
156-59-2	c-1,2-Dichloroethene	19.0	19.0	ppb	U
78-93-3	2-Butanone	102	102	ppb	U
74-97-5	Bromochloromethane	14.0	14.0	ppb	U
67-66-3	Chloroform	13.0	13.0	ppb	U
71-55-6	1,1,1-Trichloroethane	340	**32600**	ppb	
56-23-5	Carbon Tetrachloride	18.0	18.0	ppb	U
563-58-6	1,1-Dichloropropene	50.0	50.0	ppb	U
71-43-2	Benzene	14.0	14.0	ppb	U
107-06-2	1,2-Dichloroethane	16.0	16.0	ppb	U
79-01-6	Trichloroethene	17.0	17.0	ppb	U
78-87-5	1,2-Dichloropropane	16.0	16.0	ppb	U
74-95-3	Dibromomethane	21.0	21.0	ppb	U
75-27-4	Bromodichloromethane	18.0	18.0	ppb	U
110-75-8	2-Chloroethylvinylether	31.0	31.0	ppb	U
10061-01-5	c-1,3-Dichloropropene	18.0	18.0	ppb	U
108-10-1	4-Methyl-2-pentanone	51.0	51.0	ppb	U
108-88-3	Toluene	16.0	16.0	ppb	U
10061-02-6	t-1,3-Dichloropropene	18.0	18.0	ppb	U
79-00-5	1,1,2-Trichloroethane	31.0	31.0	ppb	U

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Sample: K2390-5...continue

Client Sample ID: SMP-3
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/23/2000

Type: Grab

Collected: 12/20/2000 14:40

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	8.00	8.00	ppb	U
142-28-9	1,3-Dichloropropane	21.0	21.0	ppb	U
591-78-6	2-Hexanone	89.0	89.0	ppb	U
124-48-1	Dibromochloromethane	8.00	8.00	ppb	U
106-93-4	1,2-Dibromoethane	15.0	15.0	ppb	U
108-90-7	Chlorobenzene	7.00	7.00	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	14.0	14.0	ppb	U
100-41-4	Ethylbenzene	17.0	17.0	ppb	U
108-38-3	m,p-xylene	17.0	17.0	ppb	U
95-47-6	o-xylene	8.00	8.00	ppb	U
100-42-5	Styrene	8.00	8.00	ppb	U
75-25-2	Bromoform	12.0	12.0	ppb	U
98-82-8	Isopropylbenzene	10.0	10.0	ppb	U
108-86-1	Bromobenzene	10.0	10.0	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	13.0	13.0	ppb	U
103-65-1	n-Propylbenzene	14.0	14.0	ppb	U
96-18-4	1,2,3-Trichloropropane	44.0	44.0	ppb	U
622-96-8	p-Ethyltoluene	24.0	24.0	ppb	U
108-67-8	1,3,5-Trimethylbenzene	12.0	12.0	ppb	U
95-49-8	2-Chlorotoluene	17.0	17.0	ppb	U
106-43-4	4-Chlorotoluene	16.0	16.0	ppb	U
98-06-6	tert-Butylbenzene	13.0	13.0	ppb	U
95-63-6	1,2,4-Trimethylbenzene	13.0	13.0	ppb	U
135-98-8	sec-Butylbenzene	4.00	4.00	ppb	U
99-87-6	4-Isopropyltoluene	10.0	10.0	ppb	U
541-73-1	1,3-Dichlorobenzene	10.0	10.0	ppb	U
106-46-7	1,4-Dichlorobenzene	15.0	15.0	ppb	U
95-50-1	1,2-Dichlorobenzene	13.0	13.0	ppb	U
105-05-5	p-Diethylbenzene	27.0	27.0	ppb	U
104-51-8	n-Butylbenzene	14.0	14.0	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	27.0	27.0	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	50.0	50.0	ppb	U
120-82-1	1,2,4-Trichlorobenzene	25.0	25.0	ppb	U
87-68-3	Hexachlorobutadiene	24.0	24.0	ppb	U
91-20-3	Naphthalene	27.0	27.0	ppb	U

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Sample: K2390-5...continue

Client Sample ID: SMP-3 Collected: 12/20/2000 14:40

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 12/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	38.0	38.0	ppb	U

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Sample: K2390-6
Client Sample ID: DMP-3
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/23/2000

Type: Grab

Collected: 12/20/2000 13:20

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	25.0	25.0	ppb	U
75-45-6	Chlorodifluoromethane	39.0	39.0	ppb	U
74-87-3	Chloromethane	18.0	18.0	ppb	U
75-01-4	Vinyl Chloride	17.5	**818**	ppb	
74-83-9	Bromomethane	12.5	12.5	ppb	U
75-00-3	Chloroethane	16.5	**3760**	ppb	
75-69-4	Trichlorofluoromethane	14.0	14.0	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	23.5	23.5	ppb	U
75-35-4	1,1-Dichloroethene	10.5	10.5	ppb	U
67-64-1	Acetone	94.5	94.5	ppb	U
75-15-0	Carbon disulfide	7.50	7.50	ppb	U
75-09-2	Methylene Chloride	10.0	10.0	ppb	U
156-60-5	t-1,2-Dichloroethene	13.5	13.5	ppb	U
1634-04-4	Methyl t-butyl ether	12.5	12.5	ppb	U
75-34-3	1,1-Dichloroethane	7.00	**4200**	ppb	
590-20-7	2,2-Dichloropropane	14.0	14.0	ppb	U
156-59-2	c-1,2-Dichloroethene	9.50	9.50	ppb	U
78-93-3	2-Butanone	51.0	51.0	ppb	U
74-97-5	Bromochloromethane	7.00	7.00	ppb	U
67-66-3	Chloroform	6.50	6.50	ppb	U
71-55-6	1,1,1-Trichloroethane	340	**23400**	ppb	
56-23-5	Carbon Tetrachloride	9.00	9.00	ppb	U
563-58-6	1,1-Dichloropropene	25.0	25.0	ppb	U
71-43-2	Benzene	7.00	7.00	ppb	U
107-06-2	1,2-Dichloroethane	8.00	8.00	ppb	U
79-01-6	Trichloroethene	8.50	8.50	ppb	U
78-87-5	1,2-Dichloropropane	8.00	8.00	ppb	U
74-95-3	Dibromomethane	10.5	10.5	ppb	U
75-27-4	Bromodichloromethane	9.00	9.00	ppb	U
110-75-8	2-Chloroethylvinylether	15.5	15.5	ppb	U
10061-01-5	c-1,3-Dichloropropene	9.00	9.00	ppb	U
108-10-1	4-Methyl-2-pentanone	25.5	25.5	ppb	U
108-88-3	Toluene	8.00	**103**	ppb	
10061-02-6	t-1,3-Dichloropropene	9.00	9.00	ppb	U
79-00-5	1,1,2-Trichloroethane	15.5	15.5	ppb	U

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01/16/2001

EPA 8260B

Sample: K2390-6...continue
Client Sample ID: DMP-3
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/23/2000

Type: Grab

Collected: 12/20/2000 13:20

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	4.00	4.00	ppb	U
142-28-9	1,3-Dichloropropane	10.5	10.5	ppb	U
591-78-6	2-Hexanone	44.5	44.5	ppb	U
124-48-1	Dibromochloromethane	4.00	4.00	ppb	U
106-93-4	1,2-Dibromoethane	7.50	7.50	ppb	U
108-90-7	Chlorobenzene	3.50	3.50	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	7.00	7.00	ppb	U
100-41-4	Ethylbenzene	8.50	8.50	ppb	U
108-38-3	m,p-xylene	8.50	8.50	ppb	U
95-47-6	o-xylene	4.00	4.00	ppb	U
100-42-5	Styrene	4.00	4.00	ppb	U
75-25-2	Bromoform	6.00	6.00	ppb	U
98-82-8	Isopropylbenzene	5.00	5.00	ppb	U
108-86-1	Bromobenzene	5.00	5.00	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	6.50	6.50	ppb	U
103-65-1	n-Propylbenzene	7.00	7.00	ppb	U
96-18-4	1,2,3-Trichloropropane	22.0	22.0	ppb	U
622-96-8	p-Ethyltoluene	12.0	12.0	ppb	U
108-67-8	1,3,5-Trimethylbenzene	6.00	6.00	ppb	U
95-49-8	2-Chlorotoluene	8.50	8.50	ppb	U
106-43-4	4-Chlorotoluene	8.00	8.00	ppb	U
98-06-6	tert-Butylbenzene	6.50	6.50	ppb	U
95-63-6	1,2,4-Trimethylbenzene	6.50	6.50	ppb	U
135-98-8	sec-Butylbenzene	2.00	2.00	ppb	U
99-87-6	4-Isopropyltoluene	5.00	5.00	ppb	U
541-73-1	1,3-Dichlorobenzene	5.00	5.00	ppb	U
106-46-7	1,4-Dichlorobenzene	7.50	7.50	ppb	U
95-50-1	1,2-Dichlorobenzene	6.50	6.50	ppb	U
105-05-5	p-Diethylbenzene	13.5	13.5	ppb	U
104-51-8	n-Butylbenzene	7.00	7.00	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	13.5	13.5	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	25.0	25.0	ppb	U
120-82-1	1,2,4-Trichlorobenzene	12.5	12.5	ppb	U
87-68-3	Hexachlorobutadiene	12.0	12.0	ppb	U
91-20-3	Naphthalene	13.5	13.5	ppb	U

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EPA 8260B

Sample: K2390-6...continue

Client Sample ID: DMP-3
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/23/2000

Type: Grab

Collected: 12/20/2000 13:20

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	19.0	19.0	ppb	U

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Sample: K2390-7

Client Sample ID: SMP-4 Collected: 12/20/2000 12:30

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 12/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	5.00	5.00	ppb	U
75-45-6	Chlorodifluoromethane	7.80	7.80	ppb	U
74-87-3	Chloromethane	3.60	3.60	ppb	U
75-01-4	Vinyl Chloride	3.50	**37.6**	ppb	
74-83-9	Bromomethane	2.50	2.50	ppb	U
75-00-3	Chloroethane	530	**3000**	ppb	
75-69-4	Trichlorofluoromethane	2.80	2.80	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	4.70	4.70	ppb	U
75-35-4	1,1-Dichloroethene	2.10	2.10	ppb	U
67-64-1	Acetone	18.9	18.9	ppb	U
75-15-0	Carbon disulfide	1.50	1.50	ppb	U
75-09-2	Methylene Chloride	2.00	2.00	ppb	U
156-60-5	t-1,2-Dichloroethene	2.70	2.70	ppb	U
1634-04-4	Methyl t-butyl ether	2.50	2.50	ppb	U
75-34-3	1,1-Dichloroethane	1.40	**1180**	ppb	
590-20-7	2,2-Dichloropropane	2.80	2.80	ppb	U
156-59-2	c-1,2-Dichloroethene	1.90	1.90	ppb	U
78-93-3	2-Butanone	10.2	10.2	ppb	U
74-97-5	Bromochloromethane	1.40	1.40	ppb	U
67-66-3	Chloroform	1.30	1.30	ppb	U
71-55-6	1,1,1-Trichloroethane	1.10	**997**	ppb	
56-23-5	Carbon Tetrachloride	1.80	1.80	ppb	U
563-58-6	1,1-Dichloropropene	5.00	5.00	ppb	U
71-43-2	Benzene	1.40	1.40	ppb	U
107-06-2	1,2-Dichloroethane	1.60	1.60	ppb	U
79-01-6	Trichloroethene	1.70	1.70	ppb	U
78-87-5	1,2-Dichloropropane	1.60	1.60	ppb	U
74-95-3	Dibromomethane	2.10	2.10	ppb	U
75-27-4	Bromodichloromethane	1.80	1.80	ppb	U
110-75-8	2-Chloroethylvinylether	3.10	3.10	ppb	U
10061-01-5	c-1,3-Dichloropropene	1.80	1.80	ppb	U
108-10-1	4-Methyl-2-pentanone	5.10	5.10	ppb	U
108-88-3	Toluene	1.60	**25.5**	ppb	
10061-02-6	t-1,3-Dichloropropene	1.80	1.80	ppb	U
79-00-5	1,1,2-Trichloroethane	3.10	3.10	ppb	U

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Sample: K2390-7...continue

Client Sample ID: SMP-4 Collected: 12/20/2000 12:30
Matrix: Liquid Type: Grab
Remarks: See Case Narrative
Analyzed Date: 12/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	0.80	0.80	ppb	U
142-28-9	1,3-Dichloropropane	2.10	2.10	ppb	U
591-78-6	2-Hexanone	8.90	8.90	ppb	U
124-48-1	Dibromochloromethane	0.80	0.80	ppb	U
106-93-4	1,2-Dibromoethane	1.50	1.50	ppb	U
108-90-7	Chlorobenzene	0.70	0.70	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	1.40	1.40	ppb	U
100-41-4	Ethylbenzene	1.70	1.70	ppb	U
108-38-3	m,p-xylene	1.70	1.70	ppb	U
95-47-6	o-xylene	0.80	0.80	ppb	U
100-42-5	Styrene	0.80	0.80	ppb	U
75-25-2	Bromoform	1.20	1.20	ppb	U
98-82-8	Isopropylbenzene	1.00	1.00	ppb	U
108-86-1	Bromobenzene	1.00	1.00	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	1.30	1.30	ppb	U
103-65-1	n-Propylbenzene	1.40	1.40	ppb	U
96-18-4	1,2,3-Trichloropropane	4.40	4.40	ppb	U
622-96-8	p-Ethyltoluene	2.40	2.40	ppb	U
108-67-8	1,3,5-Trimethylbenzene	1.20	1.20	ppb	U
95-49-8	2-Chlorotoluene	1.70	1.70	ppb	U
106-43-4	4-Chlorotoluene	1.60	1.60	ppb	U
98-06-6	tert-Butylbenzene	1.30	1.30	ppb	U
95-63-6	1,2,4-Trimethylbenzene	1.30	1.30	ppb	U
135-98-8	sec-Butylbenzene	0.40	0.40	ppb	U
99-87-6	4-Isopropyltoluene	1.00	1.00	ppb	U
541-73-1	1,3-Dichlorobenzene	1.00	1.00	ppb	U
106-46-7	1,4-Dichlorobenzene	1.50	1.50	ppb	U
95-50-1	1,2-Dichlorobenzene	1.30	1.30	ppb	U
105-05-5	p-Diethylbenzene	2.70	2.70	ppb	U
104-51-8	n-Butylbenzene	1.40	1.40	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	2.70	2.70	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	5.00	ppb	U
120-82-1	1,2,4-Trichlorobenzene	2.50	2.50	ppb	U
87-68-3	Hexachlorobutadiene	2.40	2.40	ppb	U
91-20-3	Naphthalene	2.70	2.70	ppb	U

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01/16/2001

EPA 8260B

Sample: K2390-7...continue

Client Sample ID: SMP-4
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/23/2000

Type: Grab

Collected: 12/20/2000 12:30

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	3.80	3.80	ppb	U

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01/16/2001

EPA 8260B

Sample: K2390-8
Client Sample ID: DMP-4
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 12/23/2000

Type: Grab

Collected: 12/20/2000 12:05

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.50	0.50	ppb	U
75-45-6	Chlorodifluoromethane	0.78	0.78	ppb	U
74-87-3	Chloromethane	0.36	0.36	ppb	U
75-01-4	Vinyl Chloride	0.35	0.35	ppb	U
74-83-9	Bromomethane	0.25	0.25	ppb	U
75-00-3	Chloroethane	530	**3300**	ppb	
75-69-4	Trichlorofluoromethane	0.28	0.28	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	0.47	0.47	ppb	U
75-35-4	1,1-Dichloroethene	0.21	0.21	ppb	U
67-64-1	Acetone	1.89	1.89	ppb	U
75-15-0	Carbon disulfide	0.15	0.15	ppb	U
75-09-2	Methylene Chloride	0.20	**3.90**	ppb	
156-60-5	t-1,2-Dichloroethene	0.27	0.27	ppb	U
1634-04-4	Methyl t-butyl ether	0.25	0.25	ppb	U
75-34-3	1,1-Dichloroethane	0.14	0.14	ppb	U
590-20-7	2,2-Dichloropropane	0.28	0.28	ppb	U
156-59-2	c-1,2-Dichloroethene	0.19	0.19	ppb	U
78-93-3	2-Butanone	1.02	1.02	ppb	U
74-97-5	Bromochloromethane	0.14	0.14	ppb	U
67-66-3	Chloroform	0.13	0.13	ppb	U
71-55-6	1,1,1-Trichloroethane	0.11	0.11	ppb	U
56-23-5	Carbon Tetrachloride	0.18	0.18	ppb	U
563-58-6	1,1-Dichloropropene	0.50	0.50	ppb	U
71-43-2	Benzene	0.14	0.14	ppb	U
107-06-2	1,2-Dichloroethane	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.17	0.17	ppb	U
78-87-5	1,2-Dichloropropane	0.16	0.16	ppb	U
74-95-3	Dibromomethane	0.21	0.21	ppb	U
75-27-4	Bromodichloromethane	0.18	0.18	ppb	U
110-75-8	2-Chloroethylvinylether	0.31	0.31	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.18	0.18	ppb	U
108-10-1	4-Methyl-2-pentanone	0.51	0.51	ppb	U
108-88-3	Toluene	0.16	**3.10**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.18	0.18	ppb	U
79-00-5	1,1,2-Trichloroethane	0.31	0.31	ppb	U

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01/16/2001

EPA 8260B

Sample: K2390-8...continue

Client Sample ID: DMP-4 Collected: 12/20/2000 12:05

Matrix: Liquid Type: Grab

Remarks: See Case Narrative

Analyzed Date: 12/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
127-18-4	Tetrachloroethene	0.080	0.080	ppb	U
142-28-9	1,3-Dichloropropane	0.21	0.21	ppb	U
591-78-6	2-Hexanone	0.89	0.89	ppb	U
124-48-1	Dibromochloromethane	0.080	0.080	ppb	U
106-93-4	1,2-Dibromoethane	0.15	0.15	ppb	U
108-90-7	Chlorobenzene	0.070	0.070	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.14	0.14	ppb	U
100-41-4	Ethylbenzene	0.17	0.17	ppb	U
108-38-3	m,p-xylene	0.17	0.17	ppb	U
95-47-6	o-xylene	0.080	0.080	ppb	U
100-42-5	Styrene	0.080	0.080	ppb	U
75-25-2	Bromoform	0.12	0.12	ppb	U
98-82-8	Isopropylbenzene	0.10	0.10	ppb	U
108-86-1	Bromobenzene	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.14	0.14	ppb	U
96-18-4	1,2,3-Trichloropropane	0.44	0.44	ppb	U
622-96-8	p-Ethyltoluene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.12	**2.50**	ppb	
95-49-8	2-Chlorotoluene	0.17	**17.1**	ppb	
106-43-4	4-Chlorotoluene	0.16	0.16	ppb	U
98-06-6	tert-Butylbenzene	0.13	0.13	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.13	**5.30**	ppb	
135-98-8	sec-Butylbenzene	0.040	0.040	ppb	U
99-87-6	4-Isopropyltoluene	0.10	0.10	ppb	U
541-73-1	1,3-Dichlorobenzene	0.10	0.10	ppb	U
106-46-7	1,4-Dichlorobenzene	0.15	0.15	ppb	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	ppb	U
105-05-5	p-Diethylbenzene	0.27	0.27	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	0.27	0.27	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	0.50	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.25	0.25	ppb	U
87-68-3	Hexachlorobutadiene	0.24	0.24	ppb	U
91-20-3	Naphthalene	0.27	0.27	ppb	U

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01/16/2001

EPA 8260B

Sample: K2390-8...continue

Client Sample ID: DMP-4

Matrix: Liquid

Type: Grab

Collected: 12/20/2000 12:05

Remarks: See Case Narrative

Analyzed Date: 12/23/2000

Cas No	Analyte	MDL	Concentration	Units	Q
87-61-6	1,2,3-Trichlorobenzene	0.38	0.38	ppb	U

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01/16/2001

Iron-Total

Sample: K2390-1

Client Sample ID: MW-7 Collected: 12/20/2000 15:20

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 12/28/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**3930**	ppb	

Sample: K2390-2

Client Sample ID: MW-14 Collected: 12/20/2000 16:00

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 12/28/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**69000**	ppb	

Sample: K2390-3

Client Sample ID: SMP-1 Collected: 12/20/2000 11:25

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 12/28/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**15100**	ppb	

Sample: K2390-4

Client Sample ID: DMP-1 Collected: 12/20/2000 10:45

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 12/28/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**3100**	ppb	

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01/16/2001

Iron-Total

Sample: K2390-5
Client Sample ID: SMP-3
Matrix: Liquid
Remarks:
Analyzed Date: 12/28/2000
Type: Grab
Collected: 12/20/2000 14:40

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**69600**	ppb	

Sample: K2390-6
Client Sample ID: DMP-3
Matrix: Liquid
Remarks:
Analyzed Date: 12/28/2000
Type: Grab
Collected: 12/20/2000 13:20

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**74300**	ppb	

Sample: K2390-7
Client Sample ID: SMP-4
Matrix: Liquid
Remarks:
Analyzed Date: 12/28/2000
Type: Grab
Collected: 12/20/2000 12:30

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**47100**	ppb	

Sample: K2390-8
Client Sample ID: DMP-4
Matrix: Liquid
Remarks:
Analyzed Date: 12/28/2000
Type: Grab
Collected: 12/20/2000 12:05

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**42500**	ppb	

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01/16/2001

Nitrogen/Nitrate EPA Method 353.2

Sample: K2390-1
Client Sample ID: MW-7
Matrix: Liquid
Remarks:
Analyzed Date: 12/22/2000
Type: Grab
Collected: 12/20/2000 15:20

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.023**	ppm	

Sample: K2390-2
Client Sample ID: MW-14
Matrix: Liquid
Remarks:
Analyzed Date: 12/22/2000
Type: Grab
Collected: 12/20/2000 16:00

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.17**	ppm	

Sample: K2390-3
Client Sample ID: SMP-1
Matrix: Liquid
Remarks:
Analyzed Date: 12/22/2000
Type: Grab
Collected: 12/20/2000 11:25

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.071**	ppm	

Sample: K2390-4
Client Sample ID: DMP-1
Matrix: Liquid
Remarks:
Analyzed Date: 12/22/2000
Type: Grab
Collected: 12/20/2000 10:45

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.024**	ppm	

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01/16/2001

Nitrogen/Nitrate EPA Method 353.2

Sample: K2390-5
Client Sample ID: SMP-3 Collected: 12/20/2000 14:40
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 12/22/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.53**	ppm	

Sample: K2390-6
Client Sample ID: DMP-3 Collected: 12/20/2000 13:20
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 12/22/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.35**	ppm	

Sample: K2390-7
Client Sample ID: SMP-4 Collected: 12/20/2000 12:30
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 12/22/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.31**	ppm	

Sample: K2390-8
Client Sample ID: DMP-4 Collected: 12/20/2000 12:05
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 12/22/2000

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	**0.31**	ppm	

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01/16/2001

Sulfate by EPA Method 375.4

Sample: K2390-1
Client Sample ID: MW-7
Matrix: Liquid
Remarks:
Analyzed Date: 01/09/2001
Type: Grab
Collected: 12/20/2000 15:20

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.78	**264**	ppm	

Sample: K2390-2
Client Sample ID: MW-14
Matrix: Liquid
Remarks:
Analyzed Date: 01/09/2001
Type: Grab
Collected: 12/20/2000 16:00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.078	**32.6**	ppm	

Sample: K2390-3
Client Sample ID: SMP-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/09/2001
Type: Grab
Collected: 12/20/2000 11:25

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.78	**443**	ppm	

Sample: K2390-4
Client Sample ID: DMP-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/09/2001
Type: Grab
Collected: 12/20/2000 10:45

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.78	**179**	ppm	

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01/16/2001

Sulfate by EPA Method 375.4

Sample: K2390-5
Client Sample ID: SMP-3 Collected: 12/20/2000 14:40
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 01/09/2001

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.078	**154**	ppm	

Sample: K2390-6
Client Sample ID: DMP-3 Collected: 12/20/2000 13:20
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 01/09/2001

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.39	**137**	ppm	

Sample: K2390-7
Client Sample ID: SMP-4 Collected: 12/20/2000 12:30
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 01/09/2001

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.39	**435**	ppm	

Sample: K2390-8
Client Sample ID: DMP-4 Collected: 12/20/2000 12:05
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 01/09/2001

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.39	**98.5**	ppm	

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01/16/2001

Total Organic Carbon (TOC)-Method 415.1

Sample: K2390-1
Client Sample ID: MW-7 Collected: 12/20/2000 15:20
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 12/29/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**60.0**	ppm	

Sample: K2390-2
Client Sample ID: MW-14 Collected: 12/20/2000 16:00
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 12/29/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	2.36	**1990**	ppm	

Sample: K2390-3
Client Sample ID: SMP-1 Collected: 12/20/2000 11:25
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 12/29/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**88.0**	ppm	

Sample: K2390-4
Client Sample ID: DMP-1 Collected: 12/20/2000 10:45
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 12/29/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**137**	ppm	

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01/16/2001

Total Organic Carbon (TOC)-Method 415.1

Sample: K2390-5

Client Sample ID: SMP-3 Collected: 12/20/2000 14:40

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 12/29/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**22.7**	ppm	

Sample: K2390-6

Client Sample ID: DMP-3 Collected: 12/20/2000 13:20

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 12/29/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**104**	ppm	

Sample: K2390-7

Client Sample ID: SMP-4 Collected: 12/20/2000 12:30

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 12/29/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	0.94	ppm	U

Sample: K2390-8

Client Sample ID: DMP-4 Collected: 12/20/2000 12:05

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 12/29/2000

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	**50.9**	ppm	

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01/16/2001

Case Narrative

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone
2-Butanone
4-Methyl-2-pentanone
2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Sample K2390-3 contained cis-1,2-Dichloroethene at a concentration above the maximum calibration limit. This compound was not a target compound at the time of original analysis.

Reviewed by: _____

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01/16/2001

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

ETL

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208 Route 109 • Farmingdale • New York 11735
516-249-1456 • Fax: 516-249-8344

CHAIN OF CUSTODY DOCUMENT

K 2390

Project Name: Photocircuits | Project Manager: MATT Gallon | Sampler (Signature): David Hanny (Print): David Hanny

Project Address: 31 Sea Cliff Avenue

Client | J/N: | ☐ Rush by / /

SAMPLE INFO Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank; Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe | *Air - Vol. (Liters) include: Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location	Total. # Cont.	601/602	BTX/BTEX	MTBE	624/8260/8021	625/8270/8310	PCB/Pesticides	Pet.Prods./8100M	RCRA Metals	pH/Flash/React	418.1 - TRPH	TOC
1	12/20/00	1100	G	Water	MW-7	5			X	X						X	
2		1600			MW-14	5			X	X						X	
3		1125			SMP-1	5			X	X						X	
4		1015			OMP-1	5			X	X						X	
5		1140			SMP-3	5			X	X						X	
6		1020			OMP-3	5			X	X						X	
7		1230			SMP-4	5			X	X						X	
8		1205			OMP-4	5			X	X						X	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent
David P. Hanny	12/20/00 1700				
Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received for Lab by (Signature):	Date / Time	Printed Name
				1-21 1045	Eric [illegible]

Comments & Special Instructions: TOC 8260B - (PCE, TCE, DCE, VC, 1,1,1-TCA 1,1-DCA

QA/QC Type:

Number & Type of Containers:

Preservatives:

Temp: °C

ATTACHMENT D
PROJECT SCHEDULE

Photocircuits - Updated Schedule of Remedial Activities

31 & 45 Sea Cliff Avenue Sites

2/16/01