

**1999 FIRST QUARTER REPORT ON THE
SOIL-VAPOR EXTRACTION SYSTEM
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

Prepared For

Nabisco Inc.

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Prepared By

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water & Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611

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EXECUTIVE SUMMARY

Two soil-vapor extraction systems are currently installed at the site. Both systems were installed in the summer of 1998 as part of a USEPA approved soil remedial action. One system uses a 20-hp regenerative blower to extract VOCs from impacted soils beneath the FDSA. The second system uses a 3-hp regenerative blower to extract VOCs from impacted soils stored in an engineered ex-situ soil impoundment (SI). The SI was filled with soil from a remedial excavation completed to remove VOC impacted surficial soils from the FDSA. Effluent piping from the two blowers were combined in to a single manifold. The combined effluent was treated prior to discharge to the atmosphere using two activated carbon units placed in series.

The objective of operating the FDSA system was to remove a continuing source of ground-water contamination by extracting VOCs from the unsaturated soils so resulting concentrations are below NYSDEC clean-up objectives. The objective of operating the SI system was to extract VOCs from the excavated soils so resulting concentrations are below federal land disposal restrictions.

The two systems have been operated at the site since late 1998. This report presents air quality and system performance results from long-term operation of the systems from January 28 to May 13, 1999. The FDSA system operated for 81 percent of the reporting period. The SI system operated for 38 percent of the reporting period. Performance data indicate that the SVE systems were effective in remediating VOCs from both in-situ and ex-situ VOC impacted soils.

During the reporting period, three sets of active well pairs were rotated weekly in the FDSA. Airflow patterns within the SI were also modified on a weekly basis. Total VOC contaminant removal estimates range from 29 pounds (using laboratory data) to 73 pounds (using PID field screening data). Since the installation and operation of the two SVE systems, over 350 pounds of VOCs have been removed from the soils at the site. As is typical with SVE systems, a large portion of the VOCs were removed during start-up and initial operation of the systems. Removal rates declined during the reporting period from approximately 0.086 lb/hr to 0.01 lb/hr. While the

removal rates were expected to decrease over time, the initial removal rates were slightly lower than those estimated from the initial testing program.

Operational changes, such as down times in the system and switching active well pairs appeared successful in increasing, at least temporarily, observed VOC removal rates. Of the active wells operated in the FDSA during this reporting period (SVE 6 & 8, 9 & 11, 13 & 14), SVE 9, 13 and 14 were the least productive. VOC concentrations observed from these wells were generally lower than observed at SVE 6, 8, and 11. SVE 10, operated during the IO&M in December, 1998, produced VOC concentrations among the highest observed to date.

The carbon units were effective in removing VOCs from the air stream prior to discharge to the atmosphere. To date, VOC breakthrough has not occurred. Using laboratory data, the lead carbon unit (Carbon Unit No. 1), has been loaded to approximately 11 percent of its adsorption capacity.

Based on the results presented in this report, LBG recommends continuing the two week sampling protocol approved by the USEPA for the FDSA system with only slight modifications to the operating scenarios. Adding SVE 10 to the operating scenarios and removing SVE 9 from the operating scenarios are proposed. In addition, scheduled down times to allow for contaminant equalization in the subsurface, are proposed. After operating the FDSA system with these proposed changes, an evaluation can be made as to whether a proposal for soil borings and soil sampling for closure is appropriate.

Analytical results from the operation of the SI system indicated closure sampling was justified. LBG has completed the soil sampling for closure. SI decommissioning and offsite soil disposal are anticipated in the near future.

INTRODUCTION

The Rowe Industries Site, located in Sag Harbor, New York, is listed on the National Priorities List (NPL) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) or "Superfund". Past activities at the subject site resulted in the release of volatile organic compounds (VOCs) to the site soil and ground water. The three most prevalent VOCs identified in the soil and ground water were tetrachloroethylene (PCE), trichloroethylene (TCE) and trichloroethane (TCA). The VOCs from degreasing wastes generated at the site were disposed of in the past in five dry wells (Dry Wells DW-A thru DW-F, with the exception of DW-B) located on the subject property. In addition, soil beneath the former drum storage area (FDSA) was also impacted with VOCs.

In order to remediate the impacted soils, two soil-vapor extraction (SVE) systems were constructed in 1998. The first SVE system consists of 10 SVE wells located in the former drum storage area and 5 SVE wells located in the eastern parking lot. The second SVE system consists of horizontal extraction pipes in an ex-situ soil impoundment (SI). The SI was constructed to reduce the concentrations of VOCs in soils removed from the FDSA as part of the remedial action. Both of the SVE systems were installed, constructed and have been operated according to design documents and operational plans reviewed and approved by the USEPA. This report presents the results for the first quarter of long-term operation of the SVE systems. The attached tables, graphs and figures present operating conditions and air-quality measurements made during the reporting period of January 28, 1999 to June 13, 1999.

DESCRIPTION OF SYSTEM

Fifteen (15) SVE wells, which are manifolded into five separate groups (Manifolds A through E), six individual extraction points within the SI, which are manifolded into three separate groups and the two SVE blower packages were installed in the eastern portion of the property. The SVE wells in the FDSA (Manifolds A, B and C) were installed to remediate the contaminated soil within this area. The SVE wells in the eastern parking lot (Manifold D and E) were installed to collect

vapors that have migrated to the area beneath the eastern parking lot. The six extraction points within the SI were installed to treat the excavated offsite soil from the FDSA. Table 1 summarizes the soil-vapor extraction wells connected to each manifold at the site. Figure 1 shows the locations of the vapor extraction points, vacuum monitoring points, and monitor wells onsite and offsite. Figure 2 shows the below-grade manifold piping for the SVE wells and the SI. The SVE extraction and treatment systems are contained in a treatment shed and an adjacent fenced-in area, located on the eastern side of Sag Harbor Industries. Figure 3 shows the layout of the treatment system.

As shown on figure 3, the extraction wells and the impoundment piping were plumbed together after the blower units, prior to the vapor conditioning and treatment units. The combined vapors flow through a heat exchanger to reduce the temperature of the airstream which is then treated with two 1,500-pound capacity activated vapor-phase carbon absorbers. After treatment with carbon, the airstream is discharged to the atmosphere.

A discussion of the SVE's construction details for the SVE wells, equipment, gages, instrumentation and controls is presented in the report entitled, "SVE Operations and Maintenance Plan - DRAFT", prepared and submitted by Leggette, Brashears & Graham, Inc. (LBG) in February, 1999.

OPERATIONAL BACKGROUND

This report presents a summary of SVE long-term O&M activities completed at the site since January 28, 1999. Prior O&M activities, specifically activities completed during the Interim O&M (IO&M) period, are presented below.

During the IO&M period (completed from December 2 through 28, 1998), SVE Well 4, located in the parking lot, and SVE Well 10, located in the FDSA, were used to withdraw VOC-impacted vapors from the subsurface. Also during that time, the SI was online and configured so that all manifolds (North, South and Middle) were used to withdraw vapors from the SI. Throughout the IO&M period, VOC concentrations declined steadily.

The highest PCE concentration observed during the IO&M period from SVE 10 was 12,000 ppm (parts per million) collected approximately eight hours after the initial start-up of the

system. After approximately one month of operation, the concentration of PCE had reduced to 12 ppm. The highest PCE concentration observed during the IO&M period from SVE 4 was 6.39 ppm collected at start-up and after approximately eight hours after initial start-up of the system. At the end of the IO&M period, the concentration of PCE had been reduced to 0.70 ppm. The highest concentration of PCE observed during the IO&M period from the SI was 1.2 ppm. After approximately one month of operation, the concentration of PCE had been reduced to 0.015 ppm.

Approximately 309 pounds of VOCs were estimated to have been removed from the site during the IO&M period; also this mass corresponds to the amount of VOCs which results in saturation of one 1,500-pound carbon unit. The system was shut down on December 28, 1998 in order to facilitate a carbon change-out for both units and to allow contaminants in the subsurface to equilibrate.

O&M SCHEDULE

Completed Tasks During Reporting Period Week 1 to Week 15

- Carbon was replaced in both units on January 28, 1999. Following the carbon change-out, the SVE system was restarted.
- SVE wells in the FDSA were operated from 1/28/99 to 5/13/99.
- SI wells were operated from 1/28/99 to 3/11/99.
- Fifteen (15) routine site visits were completed.
- Two (2) additional site visits were completed strictly to respond to alarm conditions.
- Collected 22 soil samples from the SI on 4/8/99 per a USEPA approved sampling and analysis plan. The samples were analyzed to determine if sufficient volatiles have been removed for SI closure. Laboratory analysis for hazardous waste characterization was also completed.

Uncompleted Tasks

- SI closure analytical results were forwarded to the NYSDEC for guidance on the disposition of the soil. Once a determination is made by the NYSDEC, the SI will be dismantled and the soil will be disposed of.
- The combustible gas indicator alarm was triggered at the site several times. The cause of this particular alarm condition has not been determined.
- The addition and operation of a heat exchanger has resulted in periodic condensation in the carbon units. This situation is currently being monitored.
- During the installation of subgrade piping associated with the SVE system, asphalt was sawcut and removed. Resurfacing and asphalt patching has not been completed.

Upcoming Tasks

- Continue to operate the system according to the USEPA approved schedule.
- Provide 24-hr OSHA health and safety training to the Sag Harbor Industries facilities manager. The facility manager, who lives nearby the site, will report site conditions and restart the SVE system after benign alarm conditions.

SYSTEM STATUS SUMMARY

As previously noted, the attached tables, figures and graphs present the data collected during SVE O&M activities for the site. At the end of most tables, highlights from the data are presented. Highlights are provided to facilitate a general understanding of the operational conditions observed during the reporting period. The following sections of this report include some of those same highlights, and also includes additional insight to the data present in the tables and graphs.

System Operation

- Week 1 of SVE long-term operation started 1/28/99.
- Week 15 of SVE long-term operation ended 5/13/99.
- 105 days were in the reporting period (105 d x 24 hr/d = 2520 hr).

The following table summarizes the operating conditions for Weeks 1 through 15.

Operational Period (Start Date)	Active SVE Wells (Manifold Connection id.)	Soil Impoundment Active Manifold
Week 1 (1/28/99)	SVE 6B SVE 8C Dilution Air	South (Front/Back)
Week 2 (2/4/99)	SVE 9B SVE 11A Dilution Air	Middle (Front/Back)
Week 3 (2/11/99)	SVE 13A SVE 14C Dilution Air	North (Front/Back)
Week 4 (2/18/99)	SVE 6 SVE 8 Dilution Air	Front (North/South)
Week 5 (2/25/99)	SVE 9 SVE 11 Dilution Air	Back (North/South)
Week 6 (3/4/99)	SVE 13 SVE 14 Dilution Air	Front (Middle)
Week 7 (3/11/99)	SVE 6 SVE 8 Dilution Air	Not Active
Week 8 (3/18/99)	SVE 6 SVE 8 Dilution Air (Same scenario as Week 7. Not operational during entire Week 7 due to alarm condition)	Not Active
Week 9 (3/25/99)	SVE 9 SVE 11 Dilution Air	Not Active
Week 10 (4/1/99)	SVE 13 SVE 14 Dilution Air	Not Active
Week 11 (4/8/99)	SVE 6 SVE 8 Dilution Air	Not Active
Week 12 (4/15/99)	SVE 9 SVE 11 Dilution Air	Not Active
Week 13 (4/22/99)	SVE 13 SVE 14 Dilution Air	Not Active
Week 14 (4/29/99)	SVE 6 SVE 8 Dilution Air	Not Active
Week 15 (5/6/99)	SVE 9 SVE 11 Dilution Air	Not Active

- 20-hp blower connected to FDSA wells operated for 2052 hours. Vacuum was applied to the FDSA wells 81% of the time during the reporting period.
- SVE 6 and SVE 8 were active for 672 hours, or 33% of 2052 hours.
- SVE 9 and SVE 11 were active for 790 hours, or 38% of 2052 hours.
- SVE 13 and SVE 14 were active for 590 hours, or 29% of 2052 hours.
- 3-hp blower connected to SI operated for 951 hours. Vacuum was applied to the SI manifolds 38% of the time during the reporting period.

Soil-Vapor Recovery

Sampling Schedule

- To evaluate the progress of remediation, vapor samples were collected from Manifolds A, B, C and the SI manifold according to the following USEPA approved schedule.

Operating Period	Approximate Time Sample Collected After Change in Scenario								
	5 min	30 min	1 hr	2 hr	4 hr	6 hr	8 hr	24 hr	7 d
Week 1	X	X	X		X		X	X	X
Week 2	X	X	X	X	X		X	X	X
Week 3	X	X	X	X	X		X	X	X
Week 4		X		X			X		X
Week 5		X		X			X		X
Week 6		X		X			X		X
Week 7		X		X			X		
Week 8		X		X		X			X
Week 9		X		X		X			
Week 10		X		X		X			X
Week 11		X		X		X			X
Week 12		X		X		X			X
Week 13		X		X		X			X
Week 14		X		X		X			
Week 15		X		X		X			X

- Seven (7) day samples for Weeks 7, 9, and 14 were not available due to a system being shut down in response to an alarm condition.
- All reductions in sampling frequency were approved by USEPA. The first set of changes were incorporated on 2/18/99. The 5 minute, 1, 4 and 24 hr sampling events were eliminated.
- The eight (8) hr sampling event was changed to 6 hr on 3/18/99.
- TO-1/TO-2 laboratory analyses were completed on 5-minute samples for Weeks 1, 2 and 3. Thirty (30) minute and 7 day samples were sent for laboratory analysis for Weeks 4 through 15.
- GC analyses for PCE were completed on all samples collected. Results obtained using the GC for Week 1 did not correlate well with the laboratory analytical data. Initial results from the GC were on average 42 percent higher than the laboratory concentrations for PCE. A possible air flow problem inside a pressure valve contained within the GC unit was suspected as the cause. After the Week 2 scenario samples were analyzed, a loose flow regulator was identified and tightened. After the regulator was tightened, results from the GC were on average 13 percent below the laboratory results.

To assist in evaluating the validity of the screening results, the GC unit was sent to its manufacturer for a performance evaluation. The manufacturer determined the unit was performing properly. The unit was received back from the manufacturer on 3/8/99. Based on the manufacturer's evaluation and results of initial GC analyses, LBG believes greater confidence should be placed on the analytical results following the regulator adjustment. Nevertheless, all GC data is used here to qualitatively evaluate operational and remedial trends.

- Field screening using a PID calibrated to 100 ppm isobutylene was completed on all samples collected.

VOC Removal Estimates

- One estimate of total VOCs removed from the subsurface and the SI during this reporting period using PID field screening results is 73 pounds.

- Another estimate of total VOCs removed from the subsurface and the SI during this reporting period using laboratory analytical results is 29 pounds.
- Removal rates were calculated and are presented in the attached table entitled, "PCE, TCE, TCA and Total VOC Loading Estimates Using Laboratory Data". The average of the calculated removal rates is 0.023 lbs total VOCs per hour. A removal rate of 0.023 lbs/hr multiplied by the 2,052 hours of operation, provides a third estimate of 47 lbs of total VOCs removed. Presented another way, system operation resulted in an average of one pound of VOCs removed every 43.5 hours (1.8 days).

Air Quality

- VOC-removal trends were similar for each active well operated during the reporting period. Initial spikes in concentrations are followed by a slow and steady decline in VOCs. The one exception to this trend was SVE 13 which is discussed below.
- The highest concentrations for the SVE 6&8 and SVE 9&11 well pairs occurred during the first weeks of operation, Week 1 and Week 2, respectively.
- The highest concentration from SVE-14 occurred during it's third cycle (Week 10) at the 30-minute sampling event. This was the first sample collected after the system was restarted from alarm condition shut which down the system on 3/30/99 for approximately two days.
- SVE 13 air quality did not follow the trends of the other wells. Three samples were observed with concentrations higher than during it's initial operation. While the variable trend is difficult to explain, the magnitude of the results were relatively low compared to other SVE wells and, therefore, its relative impact on the progress of remediation is minimal.
- The following table presents laboratory and GC analytical results from each active SVE well during the first three weeks of operation. A general statement regarding GC trends after initial operation of each well pair is also presented. Weeks 1 through 3 were chosen because each week represents a initial or first week of operation for the three well pairs used. The first week of operation for well pairs SVE 6&8, 9&11 and 13&14 are Weeks 1, 2 and 3, respectively.

Active Well & Manifold (First week of Long-term Operation)	PCE (ppm)			
	Result During Well's First Week of Operation			Trend Beyond First Week of Well's Operation
	5 minute Laboratory <i>(Peak other than first week 5 minute laboratory)</i>	5 minute and 7 day GC	Peak GC <i>(Peak other than first 5 minute GC)</i>	GC
SVE 6B (Week 1)	9.3	2.3 to 4.2	14 (4,8,24hr)	below 1.2
SVE 8C (Week 1)	5.8	16 to 9.3	34 (24 hr)	below 3
SVE 9B (Week 2)	1.3	4 to 0.33	8.8 (30min)	below 1
SVE 11A (Week 2)	9.9	26 to 0.3	45 (30min)	most below 10
SVE 13A (Week 3)	0.73 <i>(Week 10 experienced a peak at the 7 day sample event of 1.2 ppm)</i>	0.09 to 0.3	0.9 (24 hr)	below 1.2
SVE 14C (Week 3)	3.3 <i>(Week 10 experienced a peak at the 5 minute sample event of 6.2 ppm)</i>	1.5 to 1.0	3.2 (24h)	most below 2 <i>(Week 10 experienced a peak of 6.2 ppm)</i>
SI	less than 0.1		0.5	

Soil-Vapor Treatment

Sampling Schedule

- To evaluate the effectiveness of the soil-vapor treatment units, vapor samples were collected from the pre-, mid- and post-carbon sampling locations according to the schedule presented for the soil-vapor recovery.
- TO-1/TO-2 laboratory analyses were completed on the 5 minute and 7 day samples for Weeks 1,2 and 3. Thirty (30) minute and 7 day samples were sent for laboratory analysis for Weeks 4 through 15.
- GC analysis for PCE was completed on all samples collected. The previous discussion regarding the validity of the GC results applies to the samples collected to evaluate soil-vapor treatment.

- Field screening using a PID calibrated to 100 ppm isobutylene was completed on all samples collected.
- Ambient air was screened onsite using a PID at two down-wind locations and one up-wind location.

VOC/Carbon Adsorption Data

- IO&M activities demonstrated the estimated mass of VOCs per 1,500-pound carbon unit is approximately 309 pounds of total VOCs before a carbon unit is saturated. As a result of IO&M activities, therefore, it was determined that the approximate absorption capacity is 20 percent (309 lb VOCs/1,500 lb carbon).
- To monitor for VOC “breakthrough”, a definition of TWO consecutive sampling events with greater than 10% of total VOCs at mid from pre-carbon has been proposed.
- Breakthrough is not believed to have occurred. The condition of two consecutive sampling events with greater than 10% of VOCs of the pre-carbon to mid-carbon results occurred once during the reporting period but at relatively low concentrations. On the seventh day of Week 3 operations, 28.5% of the total VOCs observed in the pre-carbon sample (1.3 ppm) were observed at the mid-carbon sample. The very next sample collected, Week 4 scenario - 30 minute sample, had 29.4 % of the 0.29 ppm pre-carbon VOCs in the mid-carbon sample. Before these two samples were collected, the results from the Week 3, 5 minutes samples indicated only 3.9% of 4.5 ppm total VOCs observed in the pre-carbon sample were observed in the mid-carbon sample. Immediately after these two samples were collected, VOCs observed in the mid-carbon sample decreased to only 5.6% of the 1 ppm observed in the pre-carbon sample.
- On 1/28/99, when the carbon units were emptied and refilled with virgin carbon, only 1,250 pounds of carbon fit inside each unit. The virgin carbon was taken from bags and as a result, compacted less than the original carbon was from placement at the manufactures facility and subsequent transportation. Applying the 20% observed adsorption capacity to 1,250 lbs of carbon yields a total 250 lbs of total VOC adsorption on the carbon units.

- Based on pre-carbon loading calculations using laboratory data, total VOC loading to Carbon Unit No. 1 is 27 lbs (11% of AC) and 2 lbs (1% of AC) to Carbon Unit No. 2.
- Based on laboratory analytical results and air flow calculation, total VOC loading varied over the reporting period from 0.086 lb / hr (Week 1, 5 minute sample) to 0.0045 lb / hr (Week 13, 7 day sample).
- Using an average removal rate of 0.023 lbs per hr, the saturation of Carbon Unit No. 1 would not occur for another year ($250 \text{ lbs VOC AC} - 27 \text{ lbs VOC adsorbed} = 223 \text{ lbs VOC remaining capacity}$; $223 \text{ lbs remaining capacity} * 1.8 \text{ d / lb loading rate} \Rightarrow 1 \text{ year and 1 month to saturate first unit}$). However, operational changes such as pulsed well operation are planned to keep the removal efficiencies higher. Pulsing the wells has shown to be an effective means to increase diminishing VOC removal and loading rates.
- At no time during the 15 weeks of operation summarized above, did the treated air stream and discharge surpass the NYSDEC permissible total VOC discharge rate of 0.022 lbs/hr. The maximum discharge rate calculated was 0.0037 lbs/hr at the initial system startup. This discharge rate is attributed to the initial VOC concentration spike as the system was re-started.
- VOC removal efficiencies for the carbon units ranged from 99.75% to 94.66% with an average of 98.49%.
- No ambient VOCs were detected during field screening at upwind and down-wind locations with a PID.

Operational Parameters

Measurement Schedule

- Measurements were made of operating pressures and vacuums, temperature, airflows and water levels. System measurements were made three times per scenario during Weeks 1, 2 and 3 of operation. Very little variation was observed between measurements made during each scenario.

- Vacuum measurements in the FDSA and water-level measurements were made only once per scenario for Weeks 4 through 15 of operation. Airflow measurements were made every time an air sample was collected.

Pressure and Vacuum

- Vacuum readings at the 20 hp blower inlet pipe ranged from 34 to 44 inches of water (in. H₂O).
- Vacuum at the 3 hp blower inlet pipe ranged from 9.5 to 23.5 in. H₂O.
- Pressure at the pre-carbon pipe ranged from 17.5 to 22.5 psi.
- Pressure at the mid-carbon pipe ranged from 6.5 to 10 psi.
- Vacuum was measured at vapor points (VP), SVE wells and monitoring wells with screen above the water table on the date of a site visit. Figure 4 presents isobars generated from a vacuum measurement made in the FDSA for Weeks 1 through 4 of operation. The influence of the SVE system extends beyond 50 feet from the active SVE wells.
- Vacuum at the active SVE well-heads ranged from 27 to 36 in. H₂O.

Temperature

- Ambient daytime temperatures ranged from 36 to 72 degrees F.
- Subsurface soil-vapor temperatures ranged from 35 to 55 degrees F.
- SI vapor temperatures ranged from 35 to 50 degrees F.
- Air stream temperatures were effectively reduced by the heat exchanger from between 120 and 140 degrees F to between 36 and 72 degrees F.

Airflow

- Airflow from operation of the 20 hp blower ranged from 364 to 458 acfm.
- Airflow from operation of the 3 hp blower ranged from 107 to 129 acfm.
- Airflow through the carbon units ranged from 696 to 750 acfm.
- Dilution air ranged from 160 to 393 acfm.

Water Levels

- Seventeen (17) ground-water monitoring wells were measured in the vicinity of the FDSA and east parking lot. Water level measurements from MW-98-05A are presented here because it is a shallow monitoring well, screened from 17.5 to 27.5 ft bg, and is located in the approximate center of the FDSA.
- At the beginning of the long-term O&M period, the measured water table MW-98-05A was 20.77 ft bg.
- The highest observed water table at MW 98-05A occurred during Week 2 at 20.53 ft bg. The lowest observed water table at MW-98-05A occurred during Week 15 at 21.05 ft bg. Therefore, the water table has varied over 0.5 foot in height during the reporting period.

System Maintenance

- Carbon in both treatment units was replaced on 1/28/99.
- One hundred and forty five (145) gallons of water was removed from the 20 hp blower moisture separator over four different site visits on 2/4, 2/25, 3/18 and 3/22/99.
- Thirty seven (37) gallons of water was removed from the 3 hp blower moisture separator over three different site visits on 3/11, 3/18 and 3/22/99.
- On 3/11 and 3/18/99, sand bags were identified which had fallen off of the SI and were subsequently replaced.
- A small hole was drilled into the SI manifold where it extends below grade. The hole was drilled on 3/11/99 to allow access to a low point in the piping system where moisture had accumulated. A total of 20 gallons were removed from this manifold over two days on 3/11 and 3/18/99. The hole remains plugged at this time.
- The drums of water from SVE O&M activities were removed from the site along with drums of purged ground water from a site-related sampling event. The entire shipment of drums was transported offsite to Chemical Pollution Control of Bayshore, New York. Copies of waste manifests are included in Appendix II.

Alarm Summary

- SVE system experienced nine shut downs resulting from alarm conditions.
- Four (4) of the alarm conditions were suspected from surges in the local power supply.
- The 20 hp blower thermal overload protection was triggered on four occasions.
- The combustible gas indicator (CGI) was triggered on four occasions. No detectable VOCs were noted using a PID upon inspection of the system when responding to the CGI alarm conditions.

CONCLUSIONS

1. The SVE systems have been effective in remediating VOCs from impacted soils at the site. Contaminant removal estimates for this reporting period range from 29 to 73 pounds of total VOCs.

2. Since the beginning of the IO&M period, the SVE systems have removed over 350 pounds of VOCs from the soils at the site.

3. Overall, removal rates have declined during the reporting period from approximately 0.086 lb/hr to 0.01 lb/hr. Down times in the system operation and switching active wells appear successful in increasing, at least temporarily, observed VOC removal rates.

4. Of the active wells, during this reporting period, SVE 9, 13 and 14 were the least productive. VOC concentrations observed from these wells were generally lower than observed at SVE 6, 8, and 11. Also, the concentration of VOCs from SVE 10 during the IO&M period were among the highest observed to date.

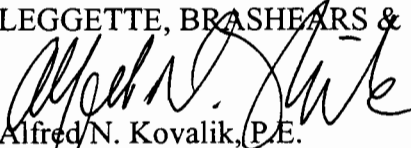
5. The carbon units are effective in removing VOCs from the air stream prior to discharge to the atmosphere. To date, VOC breakthrough has not occurred. The lead carbon unit, Carbon Unit No. 1, has been loaded to approximately 11 percent of its adsorption capacity.

RECOMMENDATIONS

1. Continue the two week sampling protocol approved by the USEPA.
2. Modify the operating scenarios outlined in LBG's Long-Term O&M schedule, dated May 11, 1999 as follows.

Operating Scenario	Previously Proposed Active SVE Wells	Proposed Modification
A	13, 14	13, 14
B (Current Scenario)	6, 8	6, 8
C	4, 9, 11	4, 11
D	13, 14	10
E	6, 8	System Off
F	2, 9, 11	2, 11
G	System Off	10

LEGGETTE, BRASHEARS & GRAHAM, INC.


Alfred N. Kovalik, P.E.
Associate

Reviewed by:


Robert Lamonica, CPG
President

cmp
July 7, 1999
H:\NABIS\1999\99(1-15).WPD

REFERENCES

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LBG Engineering Services, Inc., Letter Report to USEPA, Regarding: Soil Remedial Action, SVE Operation and maintenance, Week 8-11 Schedule, Rowe Industries Site, Sag Harbor, New York, March 17, 1999.

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Leggette, Brashears & Graham, Inc., Report Entitled, "Soil-Vapor Extraction Initial Testing Report, Rowe Industries Site, Sag Harbor, New York", Prepared for Nabisco, Inc., November 1998.

Leggette, Brashears & Graham, Inc., Draft Report Entitled, "Soil Remedial Action, SVE Operations and Maintenance Plan, Rowe Industries Site, Sag Harbor, New York", Prepared for Nabisco, Inc., February 1999.

Leggette, Brashears & Graham, Inc., Letter Report to USEPA, Regarding: Soil Remedial Action, SVE Operation and Maintenance, Rowe Industries Site, Sag Harbor, New York, May 11, 1999.

Leggette, Brashears & Graham, Inc., Comment Response Document Entitled, "Responses to USEPA Comments Concerning the SVE System", May 11, 1999.

TABLE

TABLE 1
SOIL REMEDIAL ACTION
SVE OPERATIONS AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

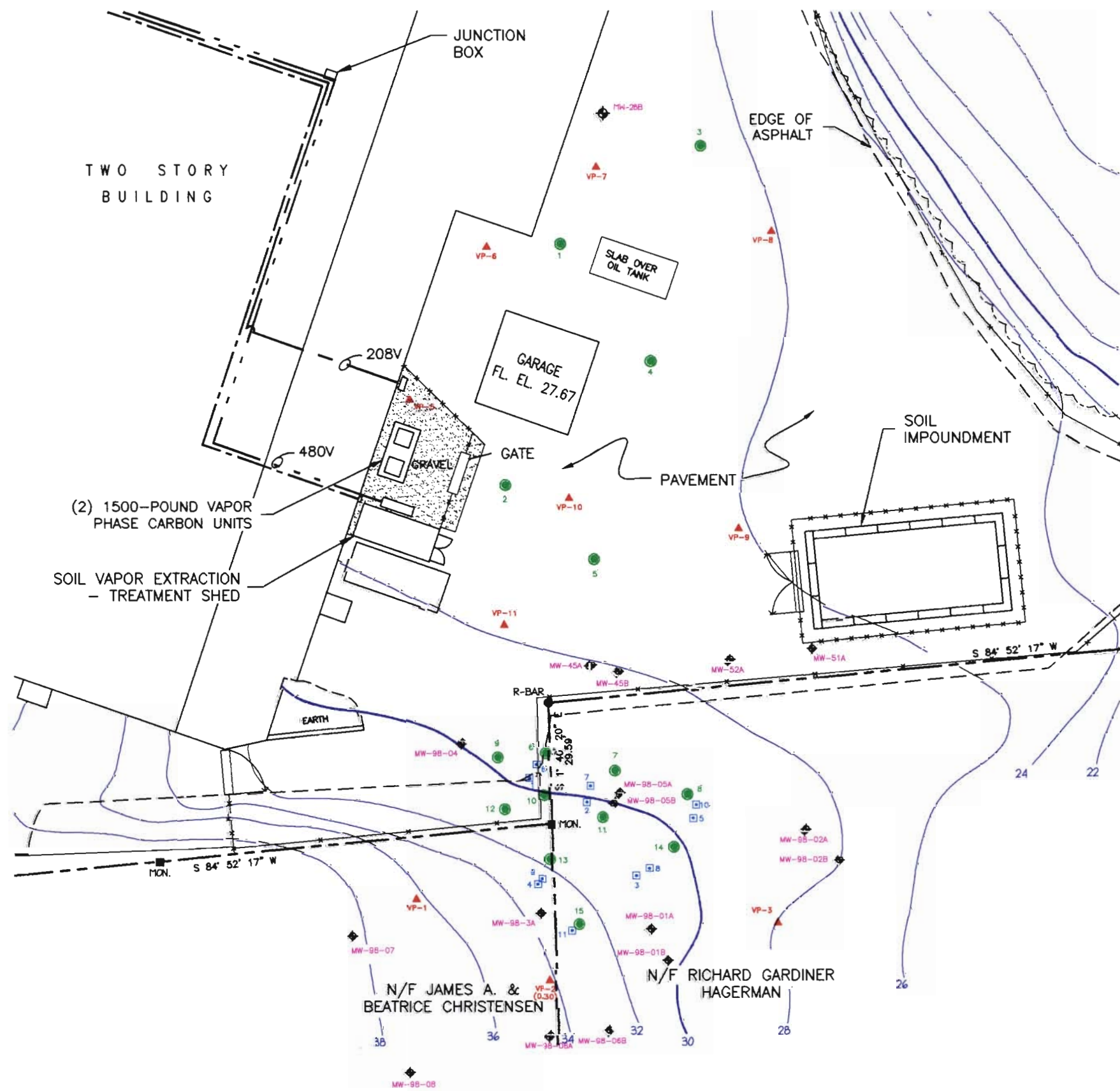
SVE Well and Manifold Details

Source	Manifold	SVE Well	Screened Interval (ft bg)
Former Drum Storage Area	A	11	5 - 15
		13	6.5 - 16.5
		15	7 - 17
	B	6	4 - 14
		9	4.5 - 14.5
		12	6 - 16
	C	7	4 - 14
		8	4 - 14
		10	5 - 15
		14	5 - 15
Eastern Parking Lot	D	3	4.5 - 14.5
		4	4 - 14
		5	4.5 - 14.5
	E	1	5 - 15
		2	6 - 16
Soil Impoundment ^{1/}	SI	North Middle South	Top 40 feet Bottom 40 feet Top 40 feet

^{1/} Horizontal piping.

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FIGURES



LEGEND

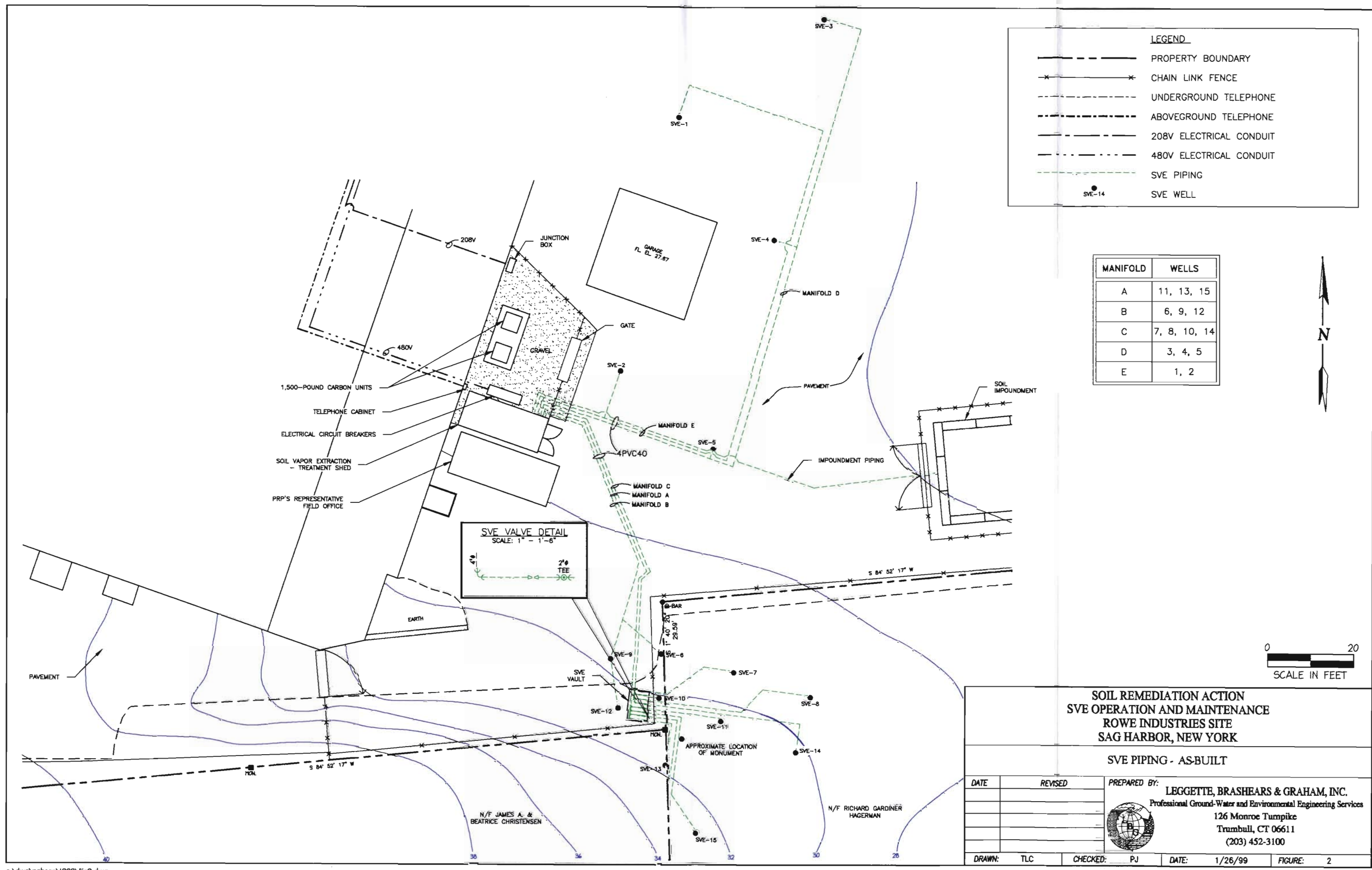
- PROPERTY BOUNDARY
- ▲ MONITOR WELL LOCATION
- AIR SPARGE WELL LOCATION
- ▲ VACUUM MONITOR POINT LOCATION
- SVE WELL LOCATION



SOIL REMEDIATION ACTION SVE OPERATION AND MAINTENANCE ROWE INDUSTRIES SITE SAG HARBOR, NEW YORK

SITE PLAN

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Engineering Services
		126 Monroe Turnpike
		Trumbull, CT 06611
		(203) 452-3100
DRAWN:	TLC	CHECKED: PJ
		DATE: 1/26/99
		FIGURE: 1



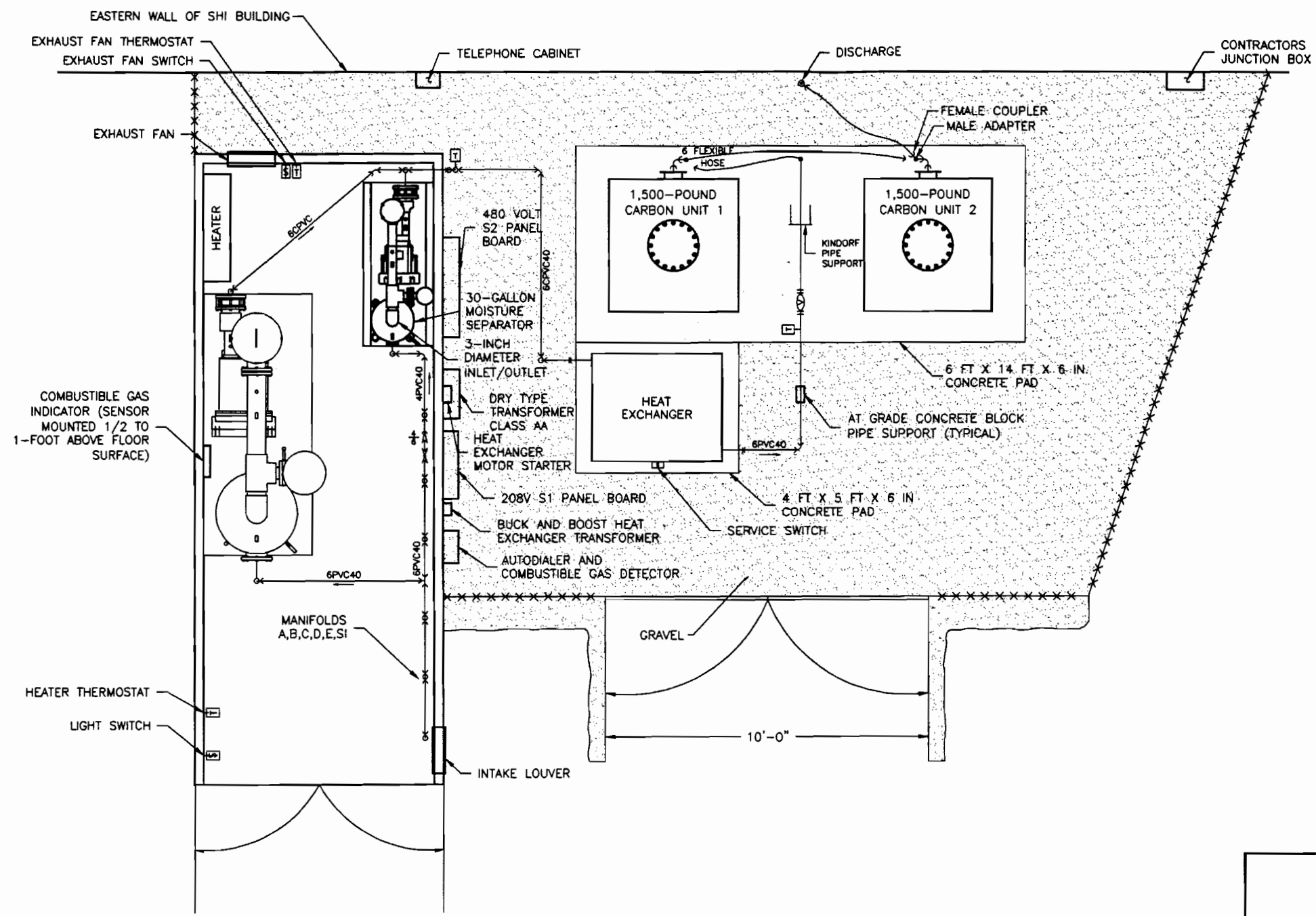
MANIFOLD	WELLS
A	11, 13, 15
B	6, 9, 12
C	7, 8, 10, 14
D	3, 4, 5
E	1, 2

SOIL REMEDIATION ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

SVE PIPING - AS-BUILT

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Engineering Services
		126 Monroe Turnpike
		Trumbull, CT 06611
		(203) 452-3100

DRAWN:	TLC	CHECKED:	PJ	DATE:	1/26/99	FIGURE:	2
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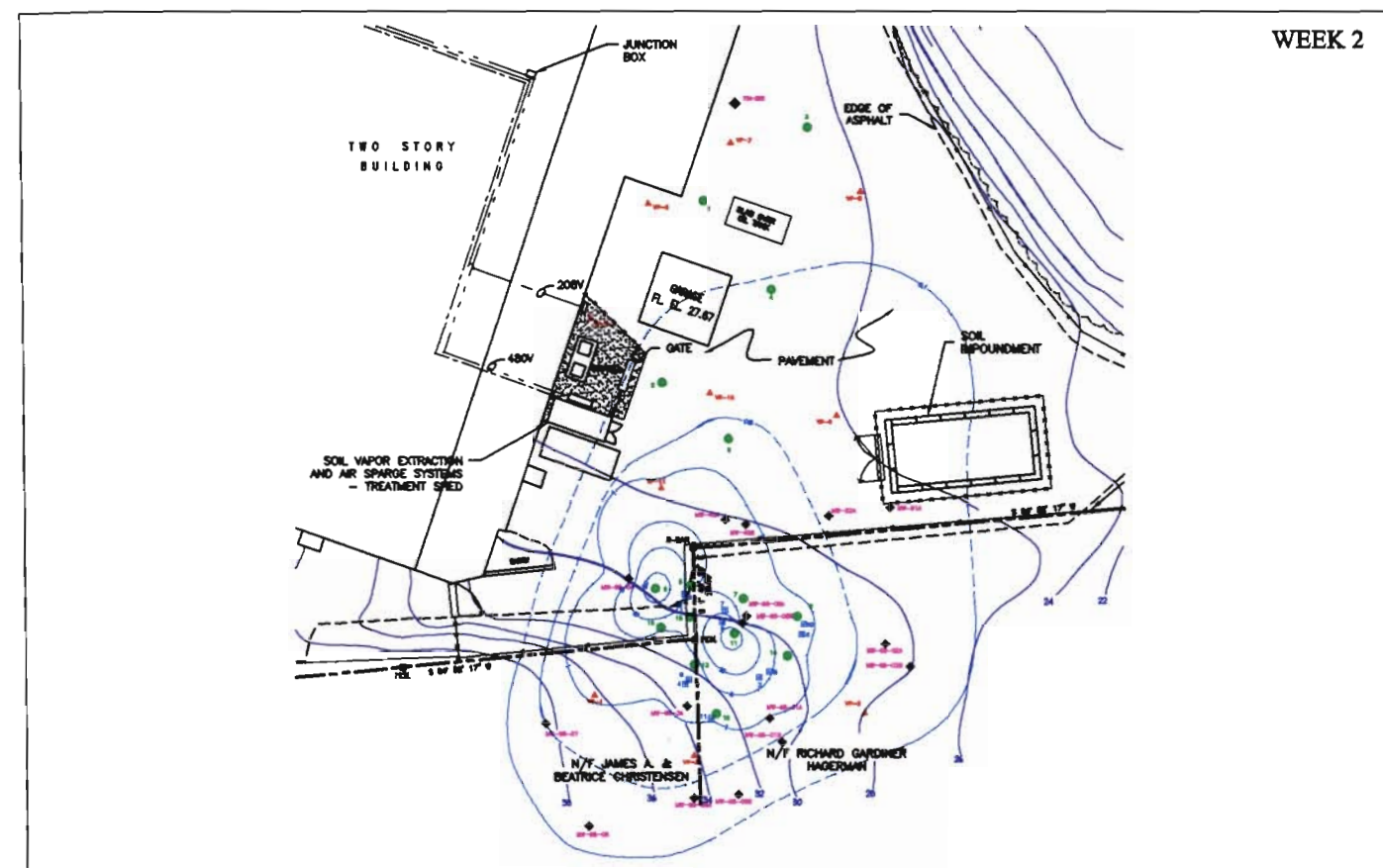
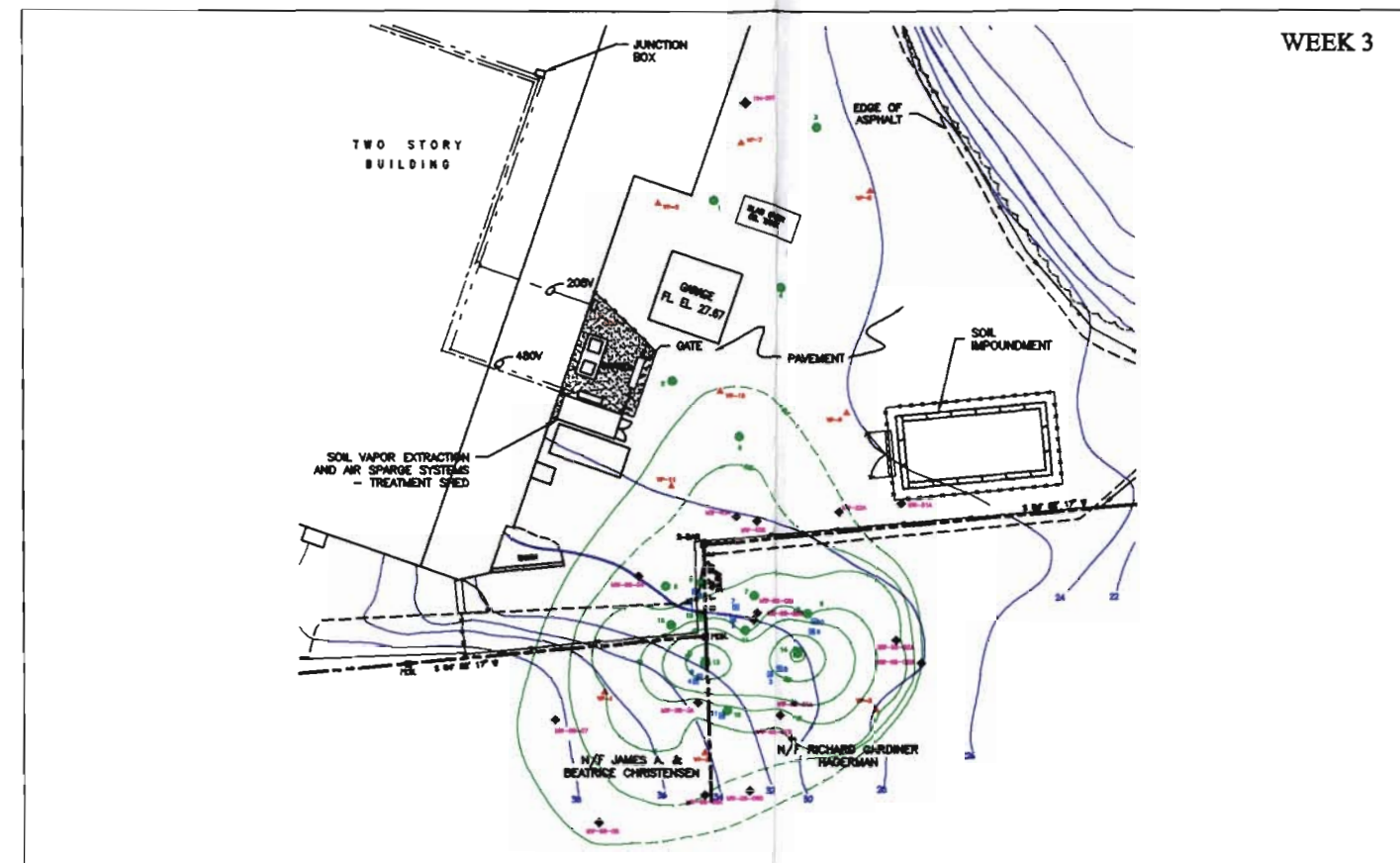
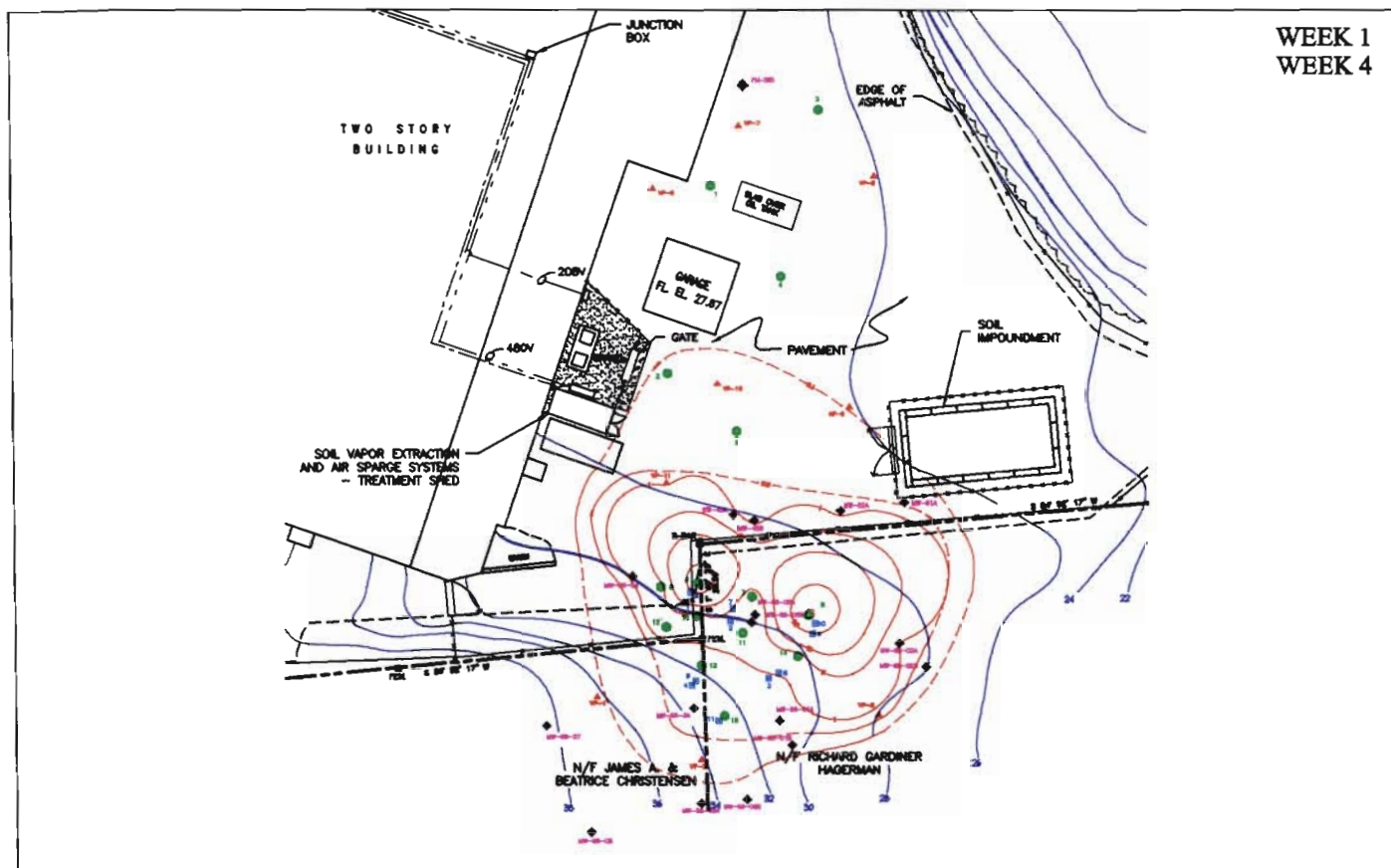
- LEGEND**
- ⊕ FLANGED FLOW METER
 - ↗ GLUED 90 DEGREE ELBOW
 - ⊞ TEMPERATURE GAUGE
 - ⊕ GLUED ELBOW (TURNED DOWN)
 - ⊕ GLUED TEE (OUTLET DOWN)
 - ↘ GLUED 45 DEGREE ELBOW
 - ⊕ GLUED BALL VALVE
 - ⊕ GLUED REDUCER (CONCENTRIC)



**SOIL REMEDIATION ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

TREATMENT SHED AND CARBON UNITS - PLAN VIEW

DATE	REVISED	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 126 Monroe Turnpike Trumbull, CT 06611 (203) 452-3100 					
DRAWN:	MRV	CHECKED:	PJ	DATE:	6/23/99	FIGURE:	3



LEGEND

- MW-05-02A MONITOR WELL LOCATION
- 3 AIR SPARGE WELL LOCATION
- VP-6 VACUUM MONITOR POINT LOCATION
- 5 SVE WELL LOCATION
- 5 VACUUM ISOBARS FOR SVE-6 (29) AND SVE-8 (33)
- 0.5 INFERRED CONTOUR
- 5 VACUUM ISOBARS FOR SVE-9 (32) AND SVE-11 (30)
- 0.5 INFERRED CONTOUR
- 5 VACUUM ISOBARS FOR SVE-13 (34) AND SVE-14 (35)
- 0.5 INFERRED CONTOUR

NOTE:

1. VACUUM AT WELL HEAD IN PARENTHESIS FOLLOWING SVE NUMBER.
2. CONTOURS SHOWN: 0.1, 0.5, 1, 5, 10, 20, 30 (INCHES OF WATER).

0 60
SCALE IN FEET



SOIL REMEDIAL ACTION SVE OPERATION AND MAINTENANCE ROWE INDUSTRIES SITE SAG HARBOR, NEW YORK

ZONE OF INFLUENCE FOR SOIL VAPOR EXTRACTION SYSTEM

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Engineering Services
		126 Monroe Turnpike
		Trumbull, CT 06611
		(203) 452-3100
DRAWN:	TLC	CHECKED: PJ
		DATE: 6/25/99
		FIGURE: 4

GRAPHS

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

**WEEK 1 - 15 SUMMARY
(1/28/99 - 5/13/99)**

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- Graph 1 - PCE Concentrations from SVE 6
- Graph 2 - PCE Concentrations from SVE 8
- Graph 3 - PCE Concentrations from SVE 9
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- Graph 5 - PCE Concentrations from SVE 13
- Graph 6 - PCE Concentrations from SVE 14
- Graph 7 - PCE Concentrations from Soil Impoundment Manifold
- Graph 8 - Summary of Total From Active Manifolds and Vapor Treatment Units

SOIL-VAPOR TREATMENT

- Graph 9 - PCE Concentrations from Pre-Carbon Air Stream
- Graph 10 - PCE Concentrations from Mid-Carbon Air Stream
- Graph 11 - PCE Concentrations from Post-Carbon Air Stream
- Graph 12 - Carbon Loading Summary

REMEDATION MONITORING

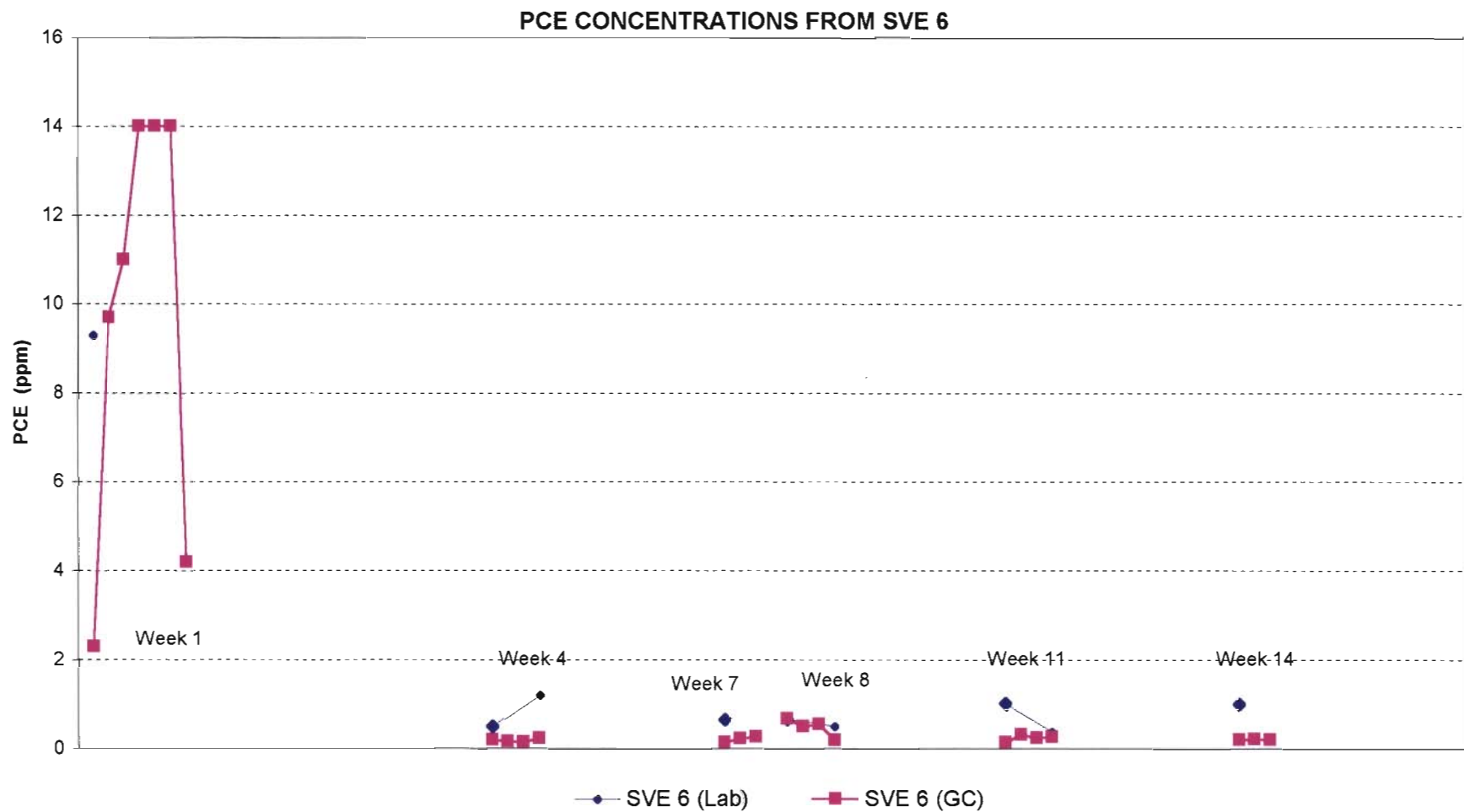
Temperature

- Graph 13 - Temperature Summary

Airflow

- Graph 14 - Airflow Summary

GRAPH 1
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance



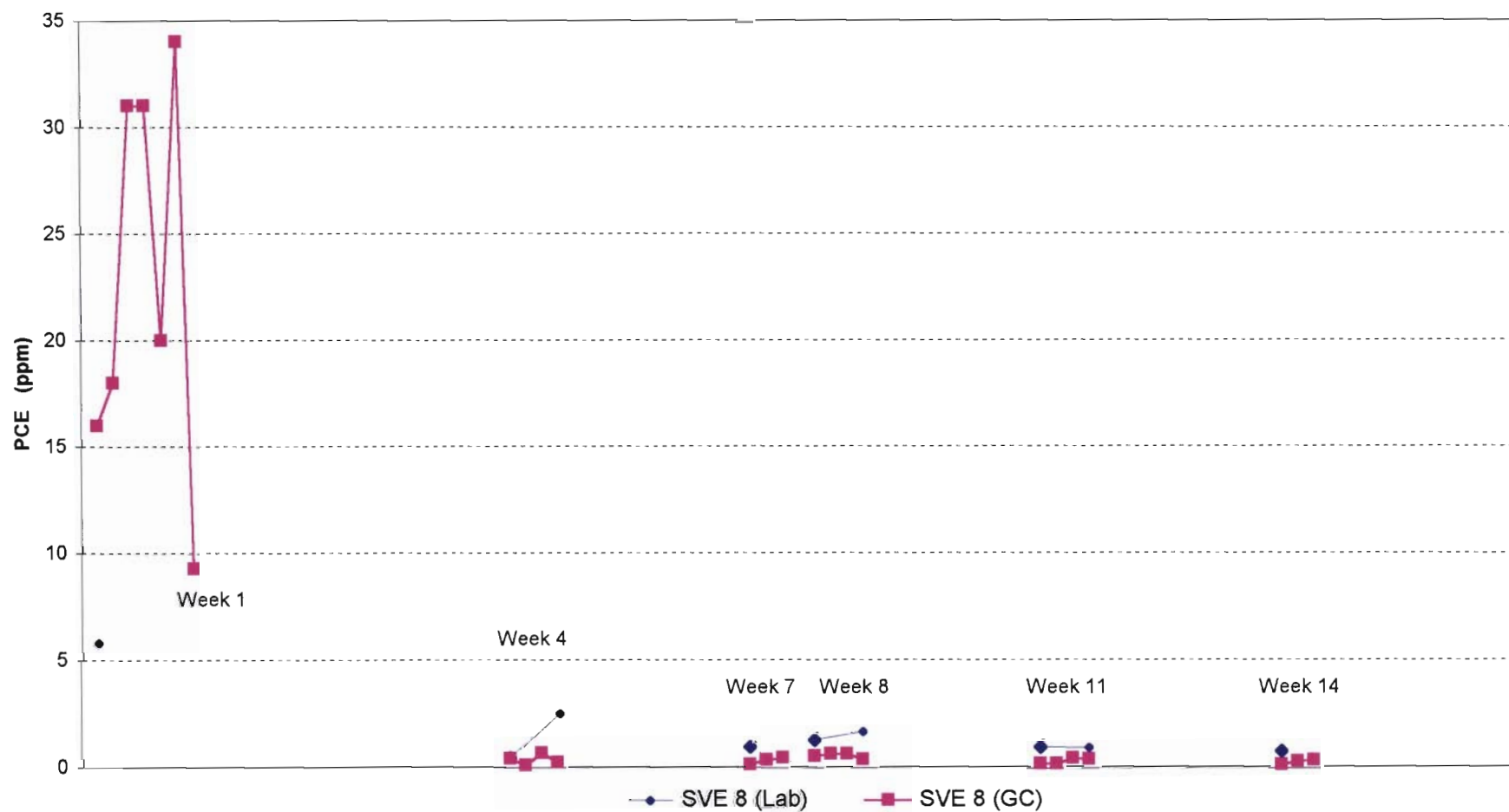
7/7/99

Graph 1 - SVE 6 PCE

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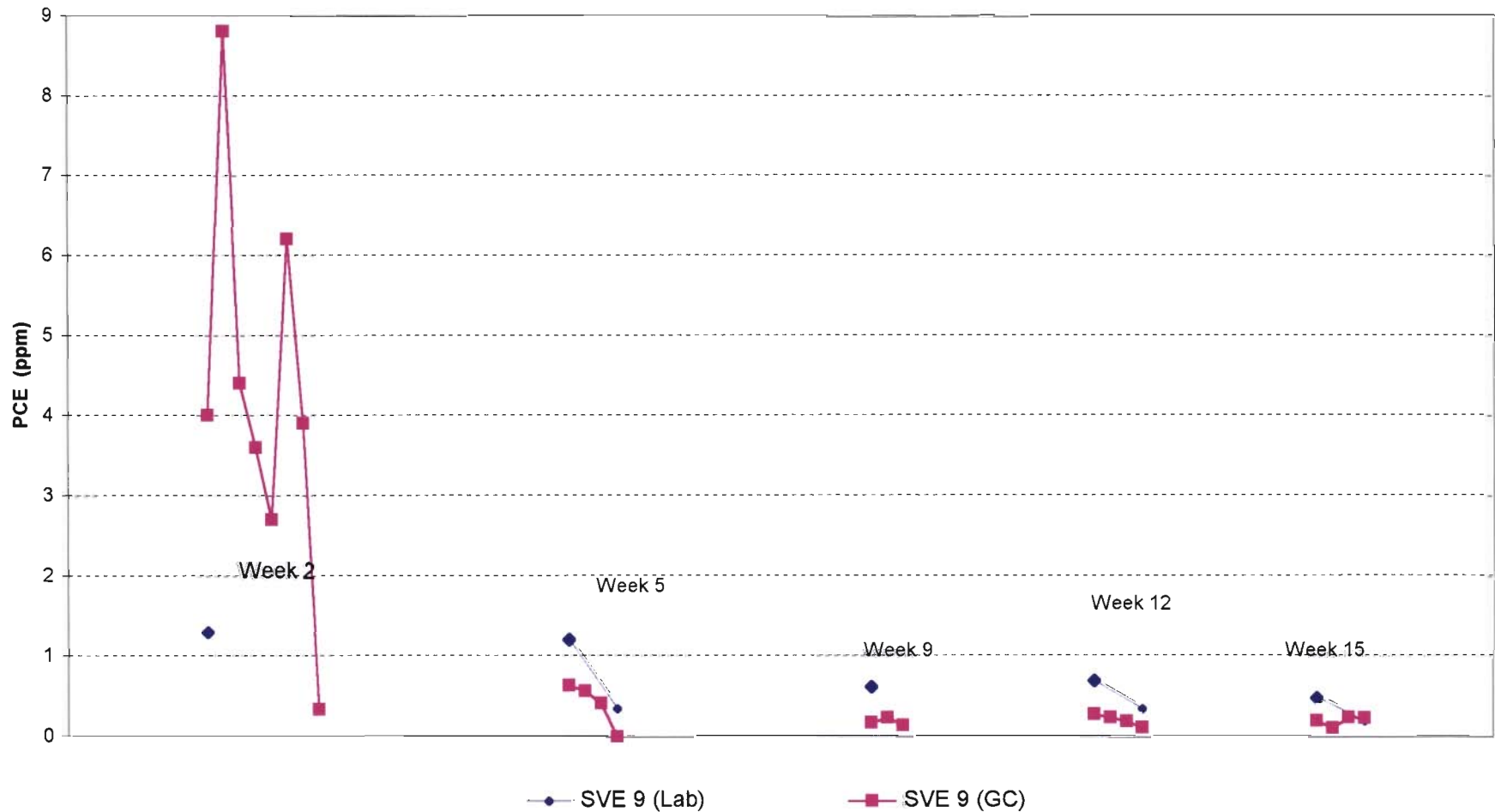
GRAPH 2
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

PCE CONCENTRATION FROM SVE 8



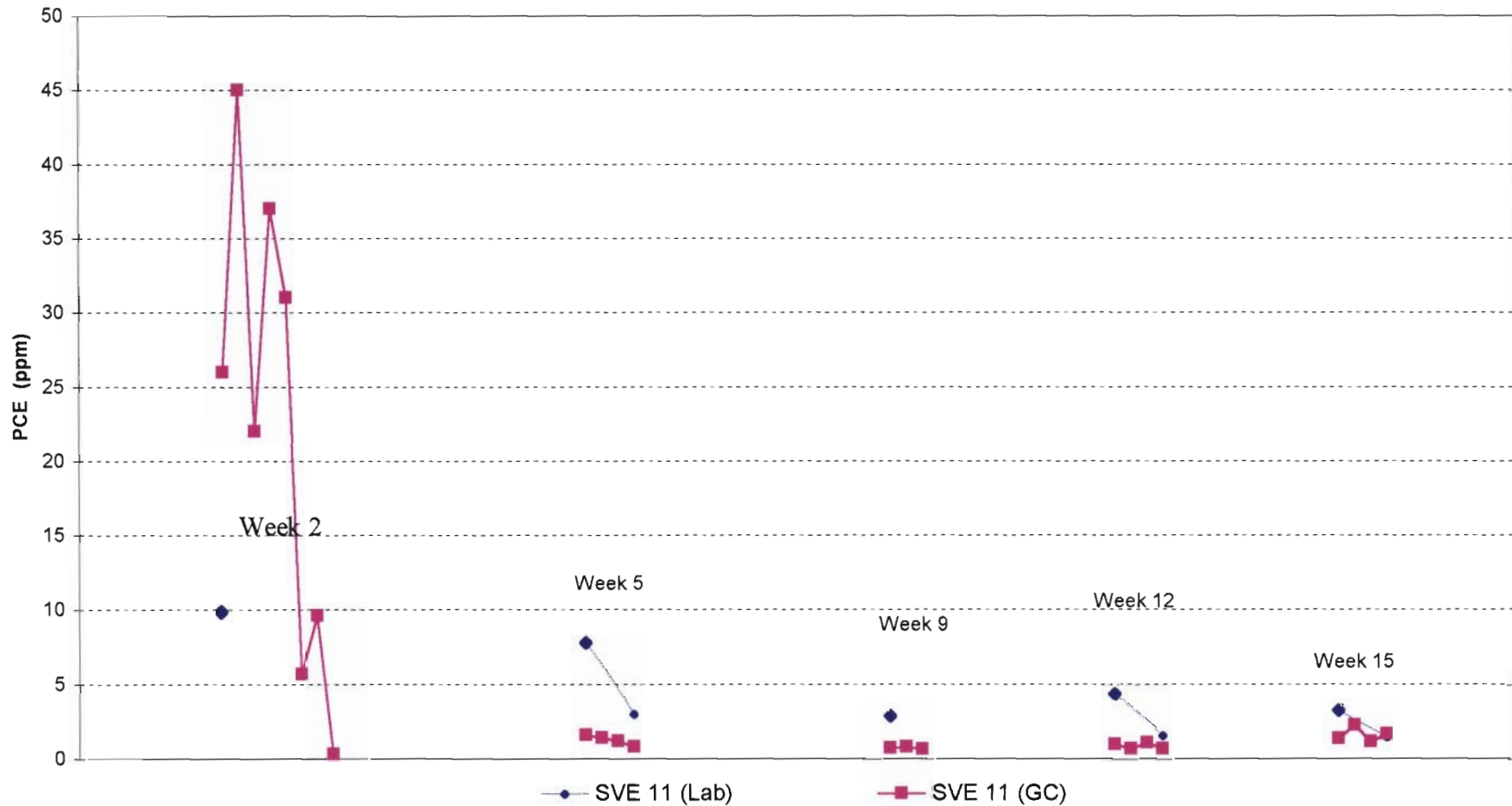
GRAPH 3
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

PCE CONCENTRATIONS FROM SVE 9



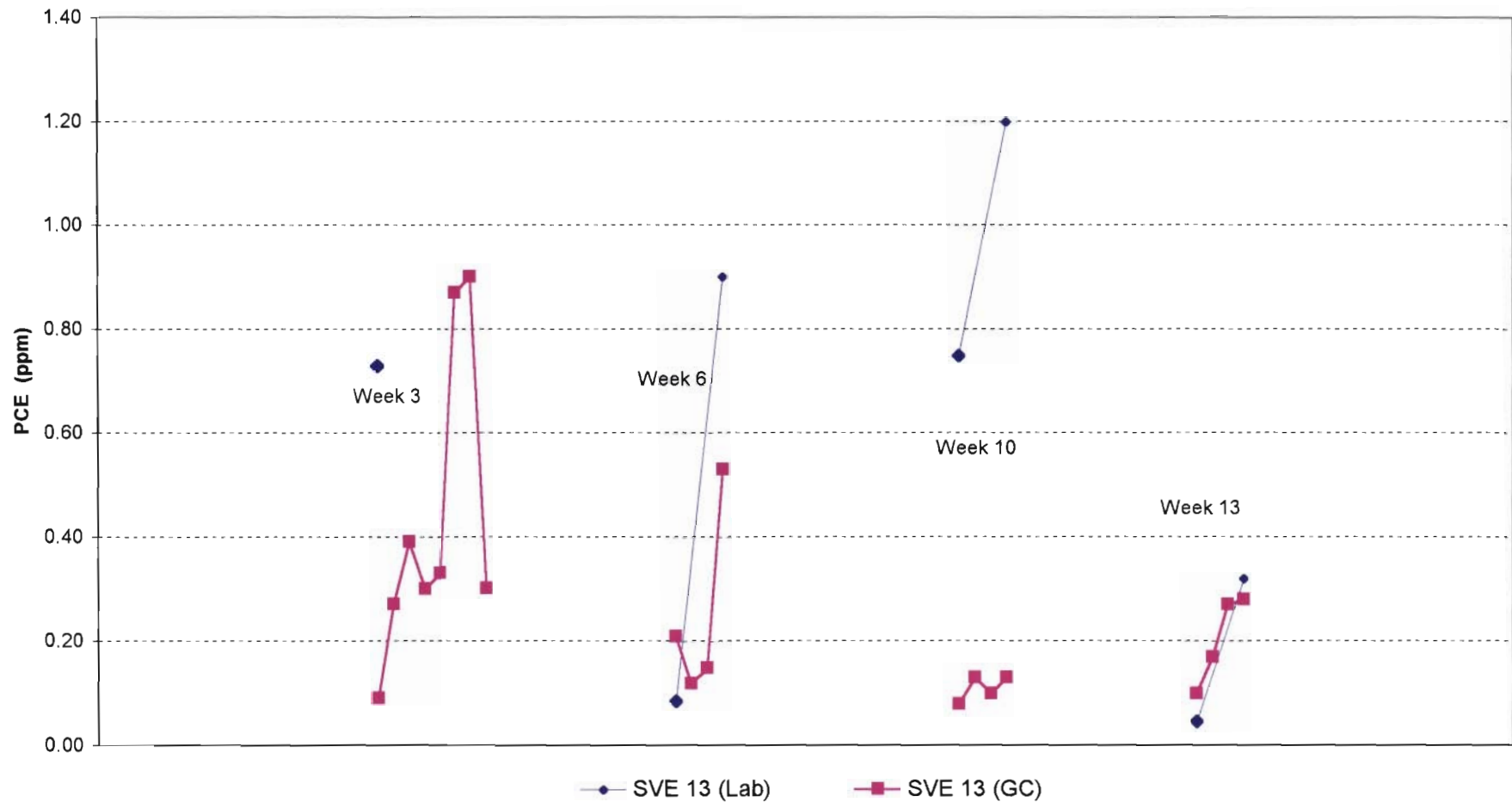
GRAPH 4
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

PCE CONCENTRATIONS FROM SVE 11



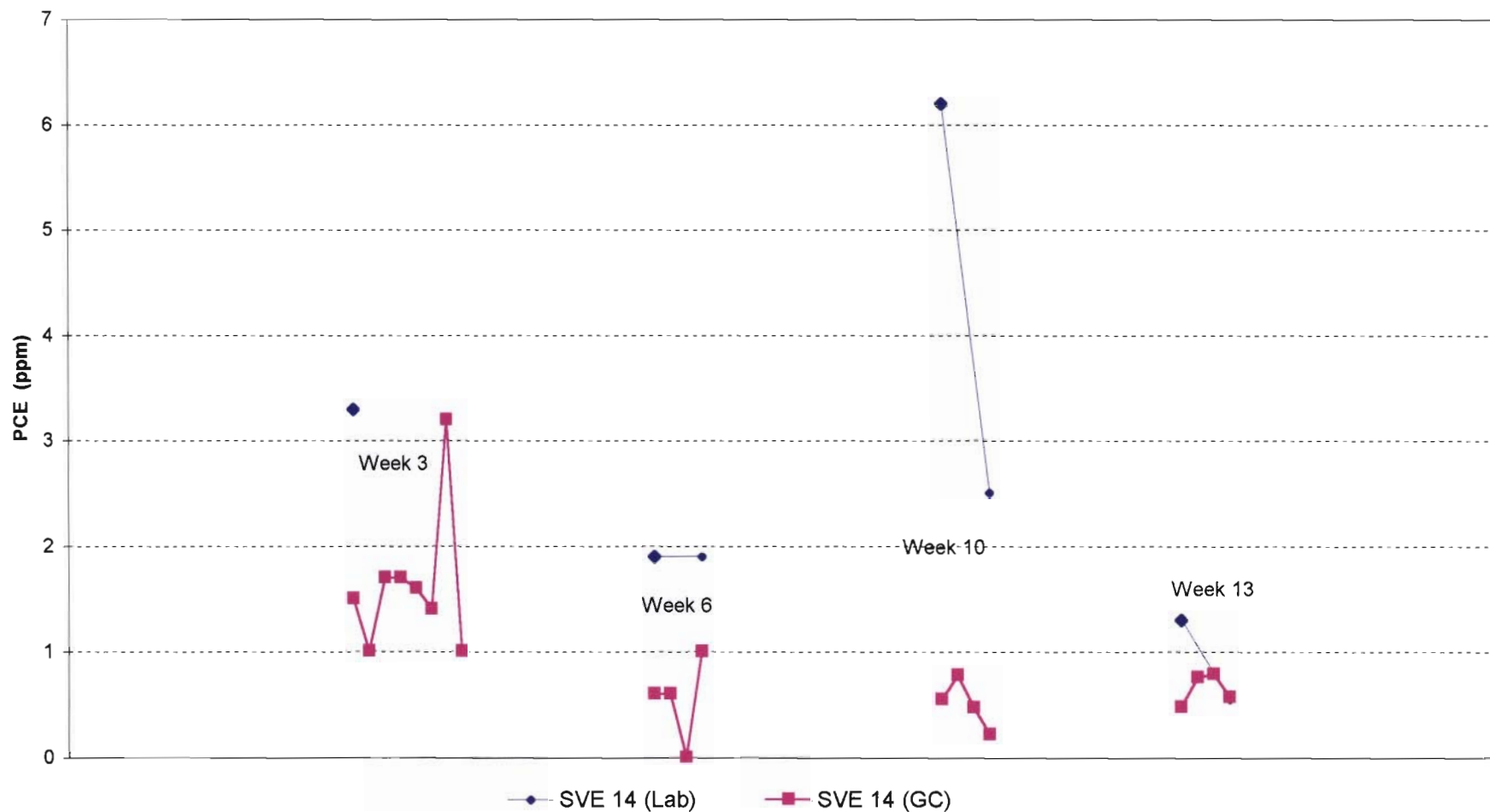
GRAPH 5
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

PCE CONCENTRATIONS FROM SVE 13

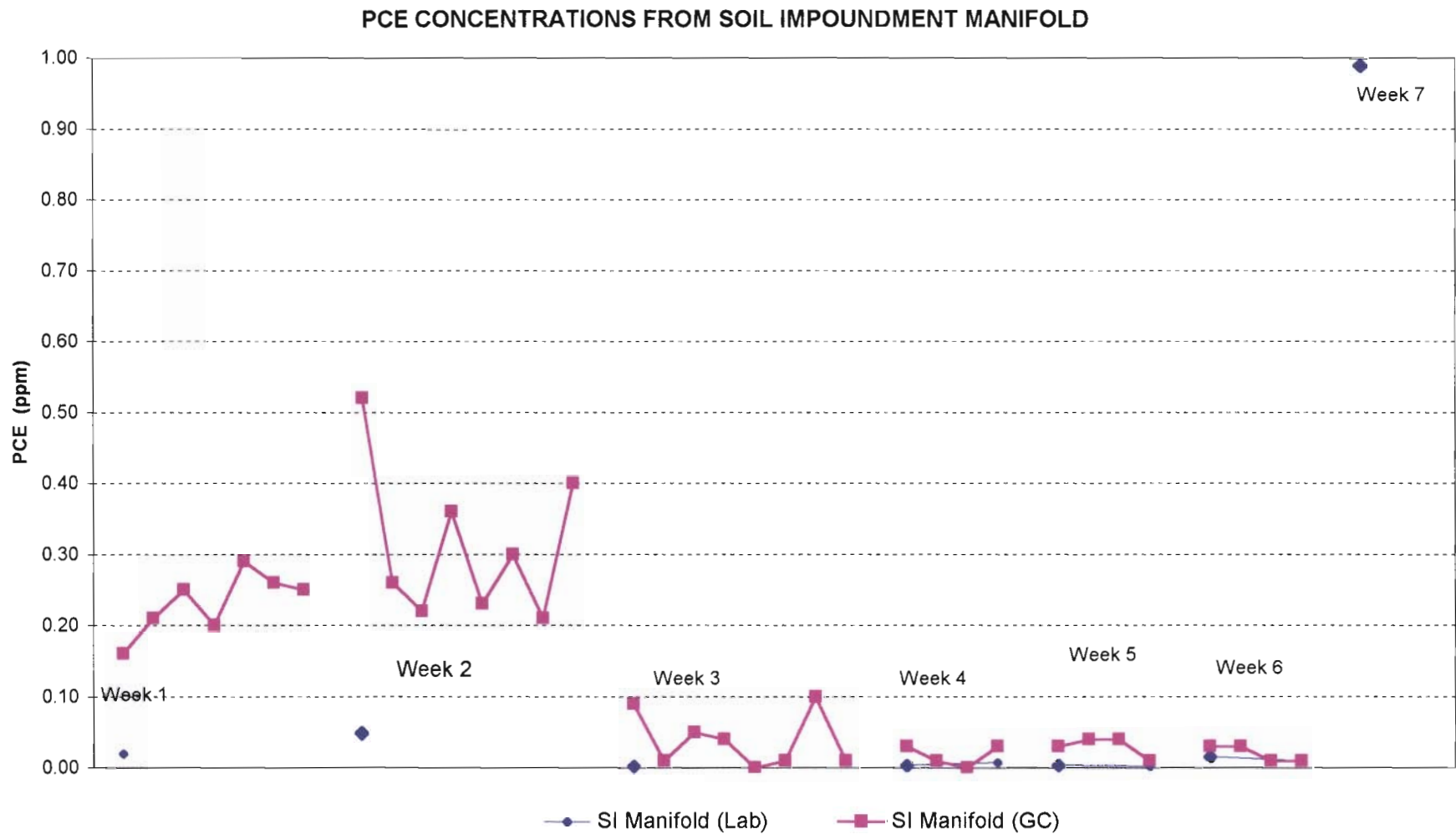


GRAPH 6
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

PCE CONCENTRATIONS FROM SVE 14

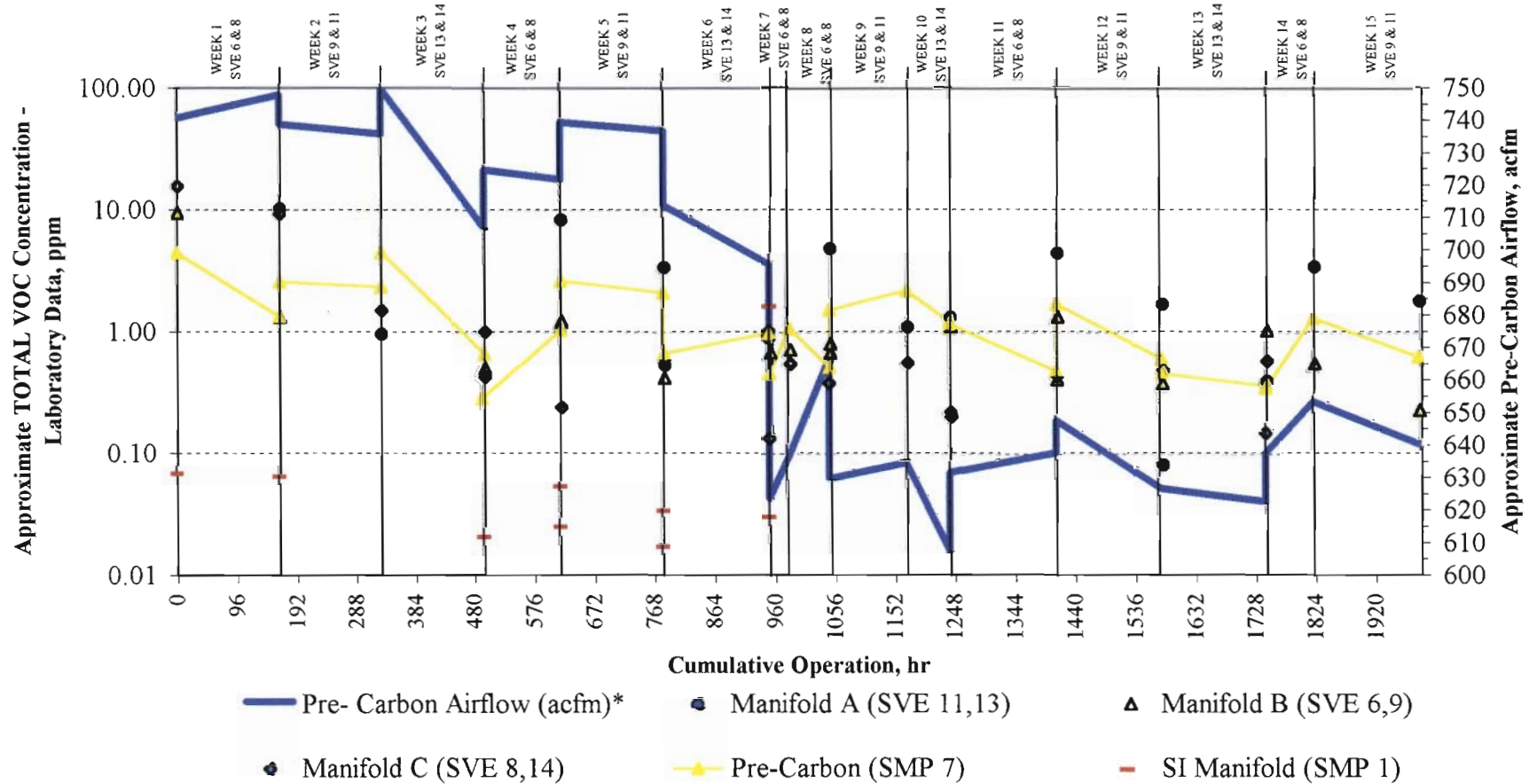


GRAPH 7
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance



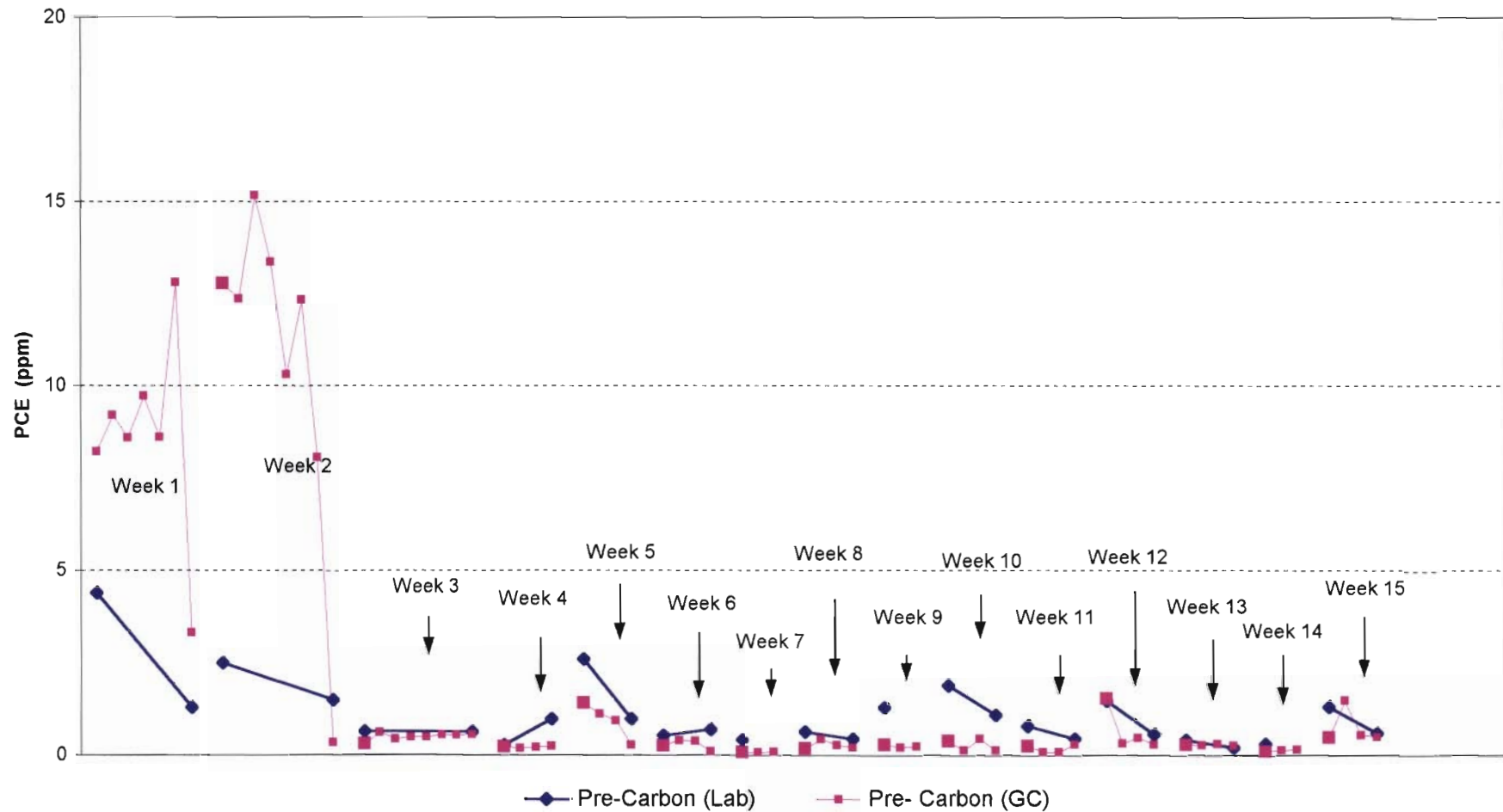
GRAPH 8
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

SUMMARY OF TOTAL VOCs FROM ACTIVE MANIFOLDS AND TO VAPOR TREATMENT
UNITS

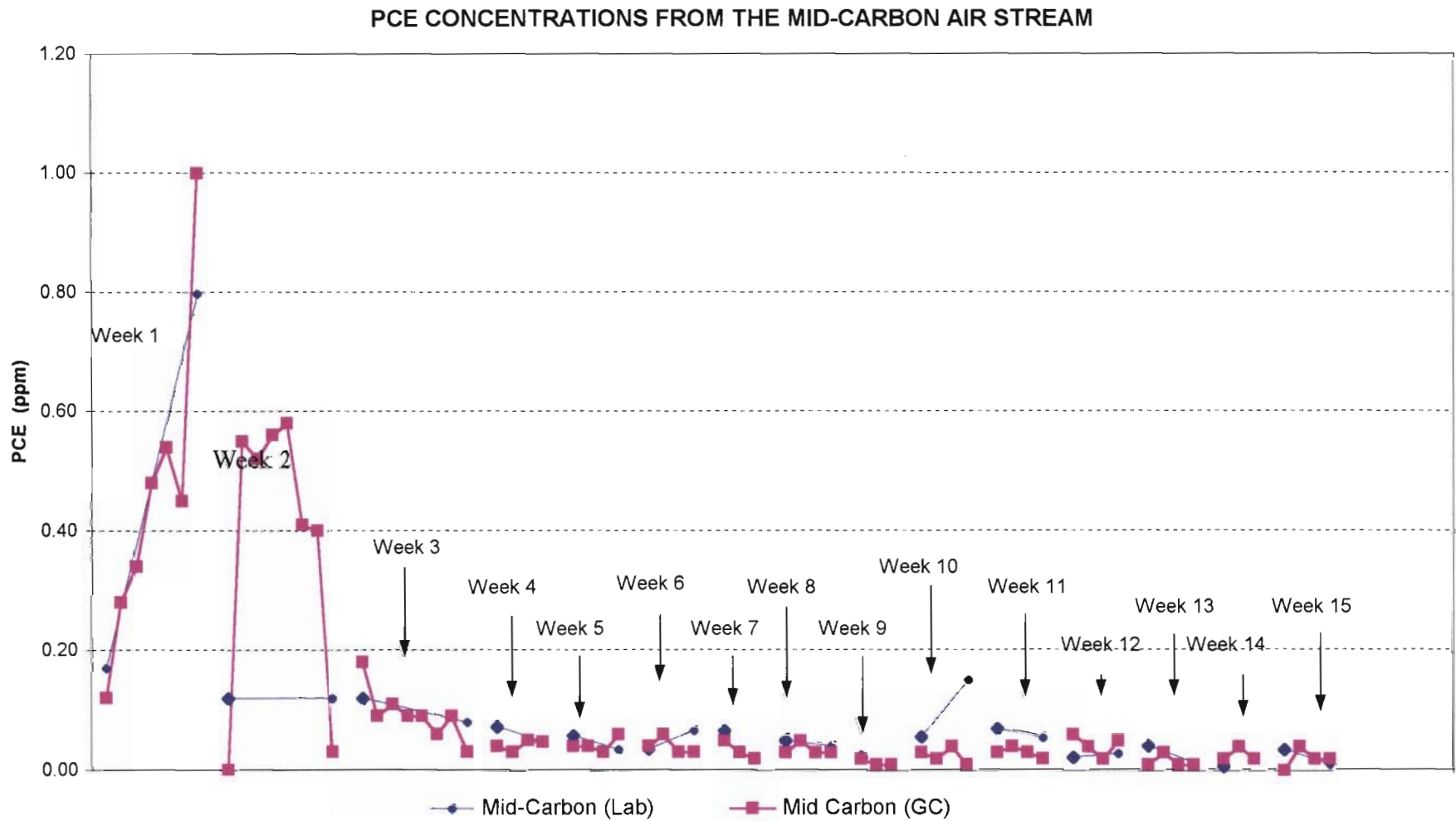


GRAPH 9
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

PCE CONCENTRATIONS FROM PRE-CARBON AIR STREAM



GRAPH 10
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

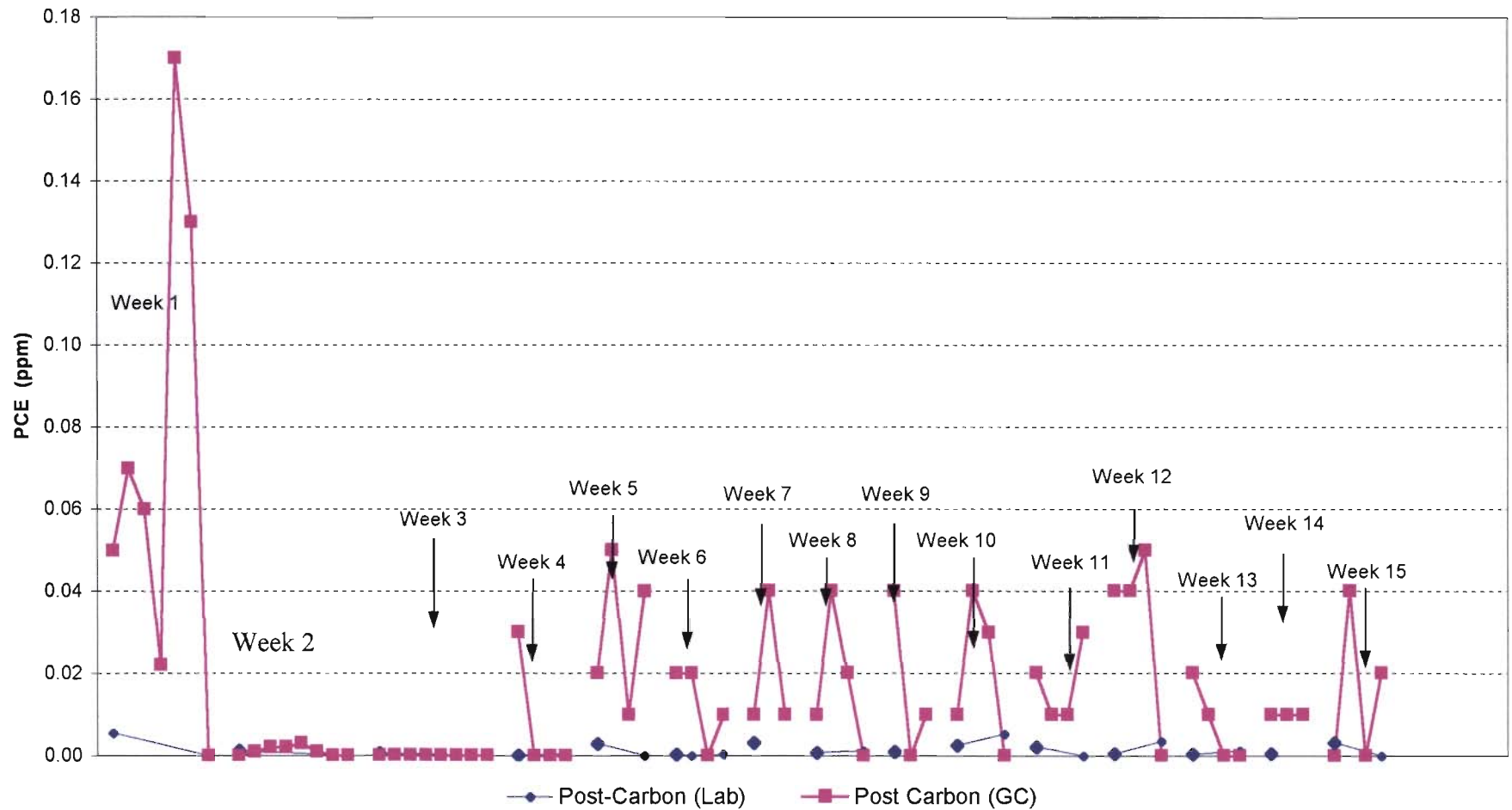


7/7/99

Graph 10 - Mid-Carbon PCE
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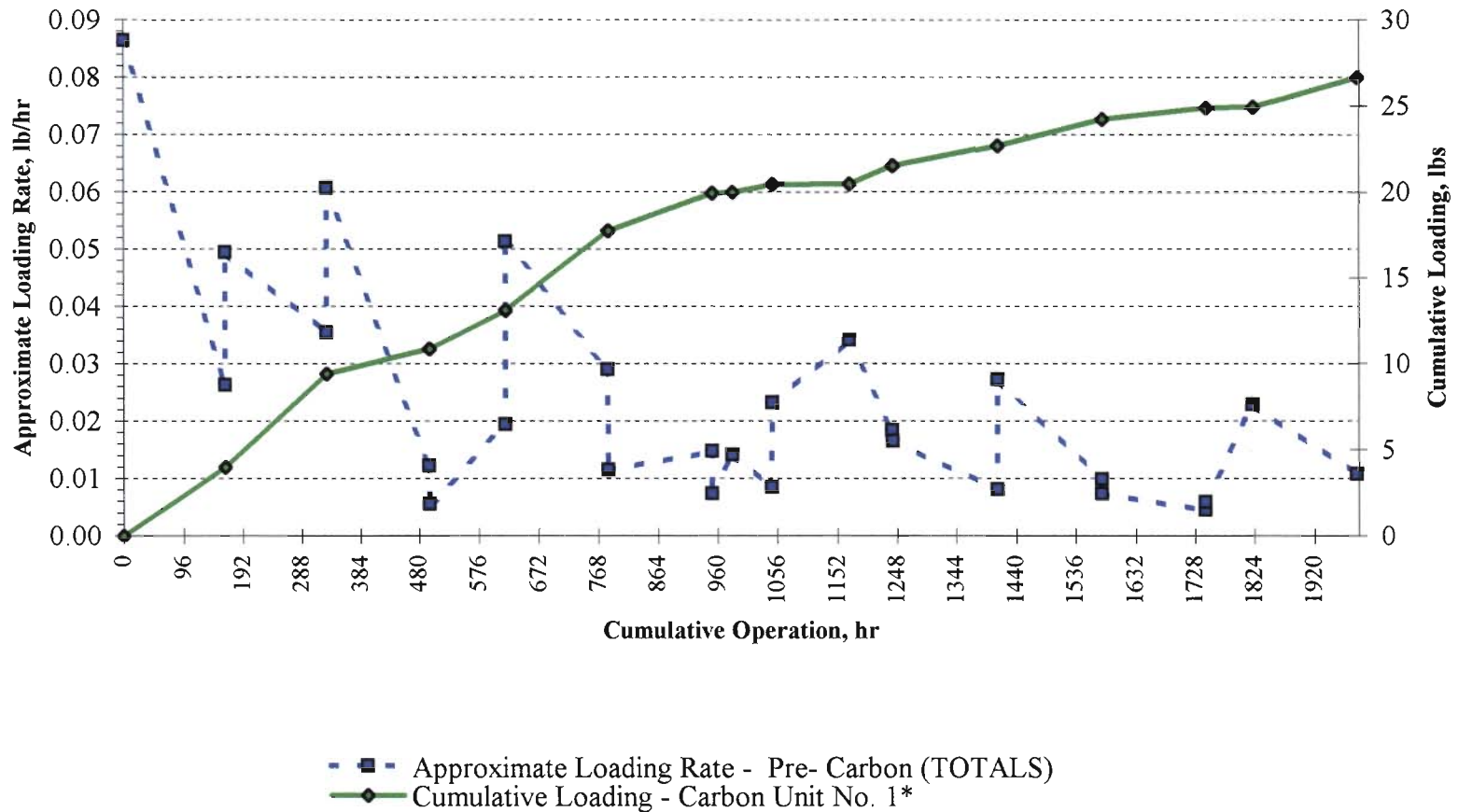
GRAPH 11
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

PCE CONCENTRATIONS FROM THE POST-CARBON AIR STREAM



GRAPH 12
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

CARBON LOADING SUMMARY

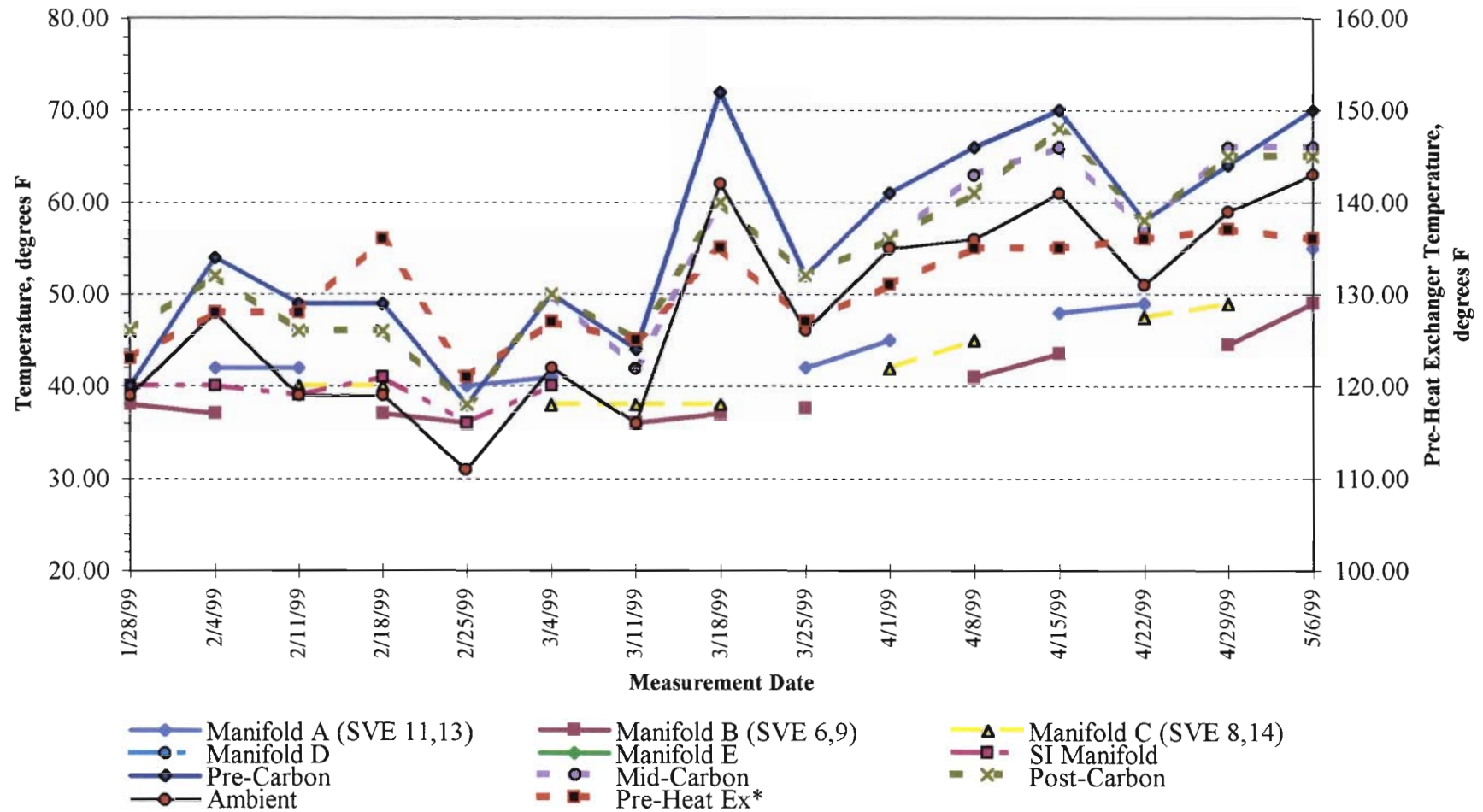


7/7/99

Graph 12 - Carbon Loading
h:/jobfiles...nabsag/soil/om/Data1-15

GRAPH 13
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

TEMPERATURES MEASURED AT FIRST SAMPLE EVENT



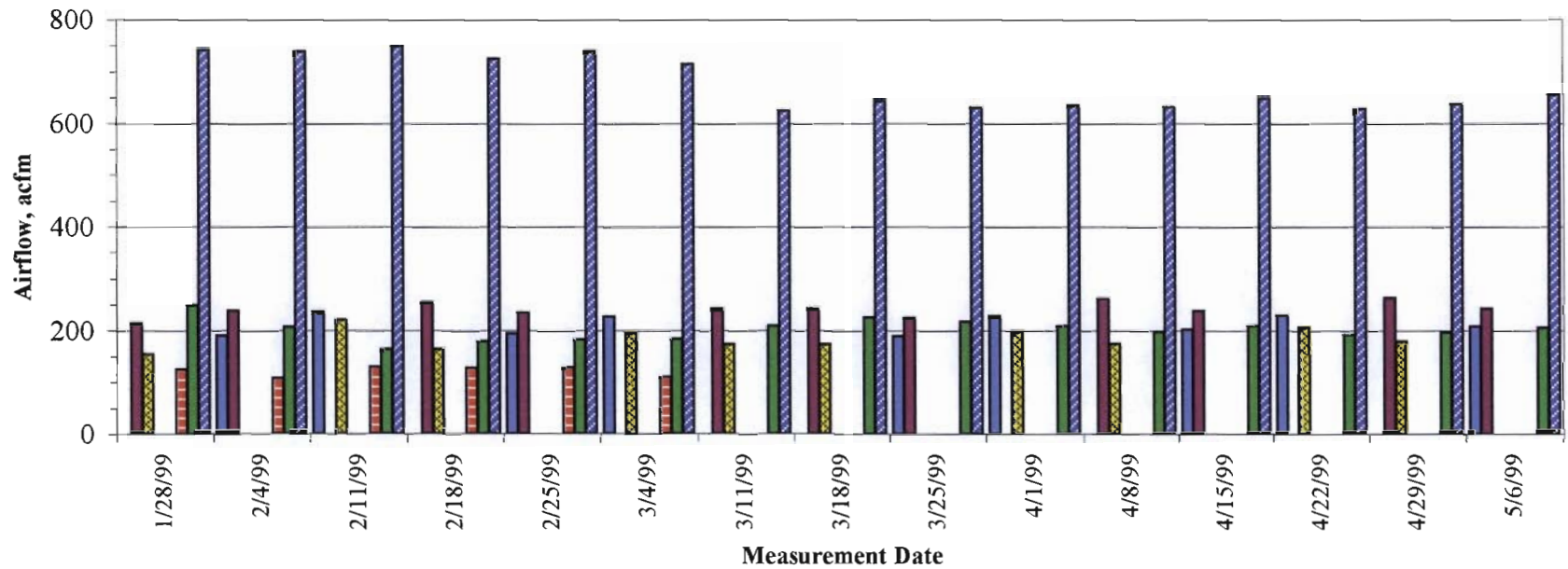
7/7/99

Graph 13 - Temp Summary

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GRAPH 14
Soil Remedial Action
Rowe Industries Site
SVE Operation and Maintenance

CALCULATED AIRFLOWS OF FIRST SAMPLE EVENTS



Manifold A (SVE 11,13)
 Manifold B (SVE 6,9)
 Manifold C (SVE 8,14)
 Manifold D

Manifold E
 SI Manifold
 Dilution Air
 Pre-Carbon

APPENDIX I
TECHNICAL SUMMARY - TABLES

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

**WEEK 1 - 15 SUMMARY
(1/28/99 - 5/13/99)**

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Detailed SVE System Operation, Monitoring and Sampling Schedule
Summary of Alarm Conditions Triggered During Operation

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Manifold A
Manifold B
Manifold C
SI Manifold

Air Quality Data (ppm)

Manifold A
Manifold B
Manifold C
SI Manifold

SOIL-VAPOR TREATMENT

Air Quality Data (mg/m3)

Pre-Carbon
Mid-Carbon
Post-Carbon
Summary of Laboratory Total VOCs and PCE Using the Portable GC

Air Quality Data (ppm)

Pre-Carbon
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Post-Carbon
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Total VOC Loading Estimates Using PID

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Summary of Vacuum Gauge Readings at SVE Wells
Summary of Vacuum Gauge Readings at Monitor Wells
Summary of Pressure and Vacuum Gauge Readings

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Airflow Calculations
Airflow Summary

Water Level

Summary of Water Levels at Monitoring Wells

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

SUMMARY OF O&M ACTIVITIES FOR REPORTING PERIOD

Table Purpose: To present a summary of operating scenarios and maintenance activities completed on the SVE system.

Date	O&M Activity	Comments
1/28/99	Carbon changeout Units 1 and 2	Replace with 1250 lbs/unit
1/28/99	Modify system configuration (Week 1 scenario)	SVE 6 & SVE 8 operational. South SI manifold operational. North and Middle SI manifolds open to ambient air.
2/4/99	Pump moisture from 20 HP moisture separator	Removed approximately 15 gallons.
2/4/99	Modify system configuration (Week 2 scenario)	SVE 9 & SVE 11 operational. Middle SI manifold operational. North and South SI manifolds open to ambient air.
2/11/99	Modify system configuration (Week 3 scenario)	SVE 13 & SVE 14 operational. North SI manifold operational. Middle and South SI manifolds open to ambient air.
2/18/99	Modify system configuration (Week 4 scenario)	SVE 6 & SVE 8 operational. Front of North and South SI manifolds operational. Back of Middle SI manifold open to ambient air.
2/25/99	Pump moisture from 20 HP moisture separator	Removed approximately 20 gallons.
2/25/99	Modify system configuration (Week 5 scenario)	SVE 9 & 11 and the Back screens of the North and South SI Manifolds.
3/4/99	Modify system configuration (Week 6 scenario)	SVE 13 & 14 and the Front header screen of the Middle SI Manifold.
3/11/99	Modify system configuration (Week 7 scenario)	SVE 6 & 8. Due to moisture in SI, 3 hp blower shut-down.
	Pump water from 3 HP moisture separator	Approximately 20 gallons removed.
	Drill and tap drain port in SI manifold at impoundment	Approximately 14 gallons removed.
	Replace sand bags on SI.	Sand bags fell off SI.

6/23/99

O&M Activities

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SUMMARY OF O&M ACTIVITIES FOR REPORTING PERIOD - CONTINUED

Date	O&M Activity	Comments
3/18/99	Pump water from 20 HP moisture separator Modify system configuration (Week 8 scenario) Replace sand bags on SI. Pump water from 3 HP moisture separator Pump water from SI manifold	Approximately 55 gallons removed. SVE 6 & 8. Approximately 3/4 of bags fell off SI. Approximately 10 gallons. Approximately 6 gallons removed.
3/22/99	Pump water from 20 HP moisture separator Pump water from 3 HP moisture separator Pump water from SVE wells 6 & 8 Re-start system (Week 8 scenario)	Approximately 55 gallons removed. Approximately 7 gallons removed. SVE 6 - 5 inches of water in well. SVE 8 - 2 inches of water in well. Dilution valve opened. Dilution valve at notch 7 (~ 20" of W.C. at well head).
3/25/99	Modify system configuration (Week 9 scenario)	SVE 9 & 11.
4/1/99	Modify system configuration (Week 10 scenario)	SVE 13 & 14.
4/8/99	Waste disposal Modify system configuration (Week 11 scenario) Sample SI for closure	Disposal of moisture separator water (6 drums). SVE 6 & 8.
4/15/99	Modify system configuration (Week 12 scenario)	SVE 9 & 11.
4/22/99	Modify system configuration (Week 13 scenario)	SVE 13 & 14.
4/29/99	Modify system configuration (Week 14 scenario)	SVE 6 & 8.
5/6/99	Modify system configuration (Week 15 scenario)	SVE 9 & 11.
5/13/99	Modify system configuration (Week 16 scenario)	SVE 13 & 14. Scenario A of long term operation. Front screens of North and South SI Manifolds added after 6 hour samples collected.

- Highlights:
- Carbon in Carbon Units No. 1 and 2 replaced with virgin carbon on 1/28/99.
 - Dilution valve on 20-hp blower was opened on 3/22/99.
 - Approximately 145 gallons of water was removed from the 20-hp blower moisture separator.
 - Approximately 37 gallons of water was removed from the 3-hp blower moisture separator.
 - Approximately 20 gallons of water was removed from the Soil Impoundment Manifold.
 - A drain port was added to the SI manifold at the junction of the three individual header screen manifolds.
 - The impoundment was sampled on 4/8/99 for closure.

6/23/99

O&M Activities

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SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

DETAILED SVE SYSTEM OPERATION, MONITORING AND SAMPLING SCHEDULE

Table Purpose: To present sampling and measurement schedules for activities completed on the SVE system during Weeks 1 - 15.

Event		Time Interval	Cum. Time of Operation	O&M Event	Operating Conditions	Comments
Date	Time	(hh:mm)	(hh:mm)			
1/28/99	11:10	-	-	Carbon change-out Units 1 and 2	Modify System Configuration (Week 1 scenario)	Replace carbon in units with 1250 lbs/unit
1/28/99	14:10	-	-	Initial Startup	SVE 6 & SVE 8 w/ dilution (notch 8) and South SI w/o dilution	North and Middle SI manifolds ambient
1/28/99	14:15	00:05	00:05	5 minute sample event	"	"
1/28/99	14:40	00:25	00:30	30 minute sample event	"	"
1/28/99	15:10	00:30	01:00	1 hour sample event	"	"
1/28/99	15:30	00:20	01:20	Gauge Readings	"	"
1/28/99	18:10	02:40	04:00	4 hour sample event	"	"
1/28/99	21:50	03:40	07:40	8 hour sample event	"	"
1/29/99	7:40	09:50	17:30	Gauge Readings	"	"
1/29/99	12:45	05:05	22:35	24 hour sample event	"	"
2/4/99	8:10	139:25	162:00	Gauge Readings	"	"
2/4/99	10:00	01:50	163:50	7 day sample event	"	"
2/4/99	10:16	00:16	164:06	Manual Shut-Down System	Modify system configuration (Week 2 scenario)	Pumped out 20 HP Blower Moisture Separator (~15 gallons)
2/4/99	12:20	-	-	Re-Start SVE System	SVE 9 & SVE 11 w/ dilution (notch 9) and Middle SI w/o dilution	North and South SI Manifolds ambient
2/4/99	12:25	00:05	00:05	5 minute sample event	"	"
2/4/99	12:50	00:25	00:30	30 minute sample event	"	"
2/4/99	13:20	00:30	01:00	1 hour sample event	"	"
2/4/99	13:28	00:08	01:08	Gauge Readings	"	"
2/4/99	14:20	00:52	02:00	2 hour sample event	"	"
2/4/99	16:20	02:00	04:00	4 hour sample event	"	"
2/4/99	20:18	03:58	07:58	8 hour sample event	"	"
2/5/99	7:50	11:32	19:30	Gauge Readings	"	"
2/5/99	11:20	03:30	23:00	24 hour sample event	"	"
2/11/99	7:45	140:25	163:25	Gauge Readings	"	"
2/11/99	9:25	01:40	165:05	7 day sample event	"	"
2/11/99	9:40	00:15	165:20	Manual Shut-Down System	Modify system configuration (Week 3 scenario)	"

DETAILED SVE SYSTEM OPERATION, MONITORING AND SAMPLING SCHEDULE - CONTINUED

Event		Time Interval	Conn. Time of Operation	O&M Event	Operating Conditions	Comments
Date	Time	(hh:mm)	(hh:mm)			
2/11/99	10:20	-	-	Re-Start SVE System	SVE 13 & SVE 14 w/ dilution (notch 9) and North SI w/o dilution	Middle and South SI manifolds ambient
2/11/99	10:25	00:05	00:05	5 minute sample event	"	"
2/11/99	10:50	00:25	00:30	30 minute sample event	"	"
2/11/99	11:20	00:30	01:00	1 hour sample event	"	"
2/11/99	11:32	00:12	01:12	Gauge Readings	"	"
2/11/99	12:20	00:48	02:00	2 hour sample event	"	"
2/11/99	14:20	02:00	04:00	4 hour sample event	"	"
2/11/99	18:20	04:00	08:00	8 hour sample event	"	"
2/12/99	6:45	12:25	20:25	Gauge Readings	"	"
2/12/99	9:20	02:35	23:00	24 hour sample event	"	"
2/18/99	7:30	142:10	165:10	Gauge Readings	"	"
2/18/99	9:35	02:05	167:15	7 day sample event	"	"
2/18/99	9:47	00:12	167:27	Manual Shut-Down System	Modify system configuration (Week 4 scenario)	"
2/18/99	9:55	-	-	Re-Start SVE System	SVE 6 & SVE 8 w/ dilution (notch 9) and Front of North and South SI w/o dilution	Middle Back SI manifold ambient
2/18/99	10:25	00:30	00:30	30 minute sample event	"	Sample event schedule changed
2/18/99	11:55	01:30	02:00	2 hour sample event	"	"
2/18/99	17:55	06:00	08:00	8 hour sample event	"	"
2/23/99	7:16	109:21	117:21	System down due to alarm condition	System shutdown due to alarm. Alarm from possible power loss.	Pumped out 20 HP Blower Moisture Separator (~30 gallons)
2/25/99	7:30	-	-	Re-Start SVE System	SVE 6 & SVE 8 w/ dilution (notch 9) and Front of North and South SI w/o dilution	Middle Back SI manifold ambient
2/25/99	9:38	02:08	02:08	Gauge Readings	"	"
2/25/99	11:30	01:52	04:00	7 day sample event	"	"
2/25/99	11:45	00:15	04:15	Manual Shut-Down System	Modify system configuration (Week 5 scenario)	"
2/25/99	12:25	-	-	Re-Start SVE System	SVE 9 & SVE 11 w/ dilution (notch 9) and Back of North and South SI w/o dilution	Middle Front SI Manifold Ambient
2/25/99	12:55	00:30	00:30	30 Minute Sample Event	"	"
2/25/99	14:25	01:30	02:00	2 Hour Sample Event	"	"
2/25/99	20:25	06:00	08:00	8 Hour Sample Event	"	"
3/4/99	6:47	154:22	162:22	Gauge Readings	"	"
3/4/99	9:01	02:14	164:36	7 Day Sample Event	"	"
3/4/99	9:23	00:22	164:58	Manual Shut-Down System	Modify System Configuration (Week 6 scenario)	"
3/4/99	9:39	-	-	Re-Start SVE System	SVE 13 & SVE 14 w/ dilution (notch 9) and Front of Middle SI w/o dilution	North and South Back SI Manifold Ambient
3/4/99	10:09	00:30	00:30	30 Minute Sample Event	"	"
3/4/99	11:39	01:30	02:00	2 Hour Sample Event	"	"
3/4/99	17:39	06:00	08:00	8 Hour Sample Event	"	"
3/11/99	6:55	157:16	165:16	Gauge Readings	"	"
3/11/99	9:00	02:05	167:21	7 Day Sample Event	"	"
3/11/99	9:20	00:20	167:41	Manual Shut-Down System	Modify System Configuration (Week 7 scenario)	"

DETAILED SVE SYSTEM OPERATION, MONITORING AND SAMPLING SCHEDULE - CONTINUED

Event		Time	Comm. Time	O&M Event	Operating Conditions	Comments
Date	Time	Interval (hh:mm)	of Operation (hh:mm)			
3/11/99	9:30	-	-	Re-Start SVE System	SVE 6 & SVE 8 w/ dilution (notch 9)	Due to moisture in SI, 3 hp system shut down.
3/11/99	10:00	00:30	00:30	30 Minute Sample Event	"	
3/11/99	11:30	01:30	02:00	2 Hour Sample Event	"	
3/11/99	17:29	05:59	07:59	8 Hour Sample Event	"	
3/12/99	17:36	24:07	32:06	System down due to alarm condition	"	Combustible Gas Indicator alarm.
3/15/99	7:07	-	-	Power Off		
3/15/99	8:24	-	-	Power On		
3/18/99	10:50	-	-	Re-Start SVE System	SVE 6 & SVE 8 w/ dilution (notch 9) (Week 8 scenario)	Operation scenario repeated due to alarm after Week 7 scenario
3/18/99	11:20	00:30	00:30	30 Minute Sample Event	"	
3/18/99	12:50	01:30	02:00	2 Hour Sample Event	"	
3/18/99	13:05	00:15	02:15	Gauge Readings	"	
3/18/99	16:50	04:00	06:00	6 Hour Sample Event	"	Switch to 6 hour sample event from 8 hour approved by EPA.
3/20/99	7:22	38:32	44:32	System down due to alarm condition	"	Combustible Gas Indicator alarm.
3/22/99	8:24	-	-	Alarm Condition	System already down for alarm.	
3/22/99	16:49	-	-	Re-Start SVE System	SVE 6 & SVE 8 w/ dilution (notch 7) (Week 8 scenario)	
3/25/99	8:08	63:19	63:19	Gauge Readings	"	
3/25/99	8:52	00:44	64:03	7 Day Sample Event	"	
3/25/99	9:03	00:11	64:14	Manual Shut-Down System	Modify System Configuration (Week 9 scenario)	
3/25/99	9:26	-	-	Re-Start SVE System	SVE 9 & SVE 11 w/ dilution (notch 9)	
3/25/99	9:56	00:30	00:30	30 Minute Sample Event	"	
3/25/99	11:26	01:30	02:00	2 Hour Sample Event	"	
3/25/99	12:25	00:59	02:59	Gauge Readings	"	
3/25/99	15:27	03:02	06:01	6 Hour Sample Event	"	
3/30/99	12:49	117:22	123:23	System down due to alarm condition		Combustible Gas Indicator alarm.
4/1/99	7:29	-	-		Modify System Configuration (Week 10 scenario)	
4/1/99	8:25	-	-	Re-Start SVE System	SVE 13 & SVE 14 w/ dilution (notch 9)	
4/1/99	8:55	00:30	00:30	30 Minute Sample Event	"	
4/1/99	10:25	01:30	02:00	2 Hour Sample Event	"	
4/1/99	10:40	00:15	02:15	Gauge Readings	"	
4/1/99	14:25	03:45	06:00	6 Hour Sample Event	"	
4/2/99	3:16	12:51	18:51	System down due to alarm condition	"	Combustible Gas Indicator alarm.
4/3/99	10:36	-	-	Re-Start SVE System		
4/8/99	8:00	69:24	69:24	7 Day Sample Event	"	
4/8/99	8:13	00:13	69:37	Manual Shut-Down System	Modify System Configuration (Week 11 scenario)	
4/8/99	8:25	-	-	Re-Start SVE System	SVE 6 & SVE 8 w/ dilution (notch 9)	
4/8/99	8:55	0:30	00:30	30 Minute Sample Event	"	
4/8/99	10:25	1:30	02:00	2 Hour Sample Event	"	
4/8/99	10:46	0:21	02:21	Gauge Readings	"	
4/8/99	14:25	3:39	06:00	6 Hour Sample Event	"	
4/15/99	10:00	163:35	169:35	7 Day Sample Event	"	
4/15/99	10:16	0:16	169:51	Manual Shut-Down System	Modify System Configuration (Week 12 scenario)	

DETAILED SVE SYSTEM OPERATION, MONITORING AND SAMPLING SCHEDULE - CONTINUED

Event		Time Interval	Cum. Time of Operation	O&M Event	Operating Conditions	Comments
Date	Time	(hh:mm)	(hh:mm)			
4/15/99	10:29	-	-	Re-Start SVE System	SVE 9 & SVE 11 w/ dilution (notch 9)	
4/15/99	10:59	00:30	00:30	30 Minute Sample Event	"	
4/15/99	12:29	01:30	02:00	2 Hour Sample Event	"	
4/15/99	12:50	00:21	02:21	Gauge Readings	"	
4/15/99	16:29	03:39	06:00	6 Hour Sample Event	"	
4/22/99	10:24	161:55	167:55	7 Day Sample Event	"	
4/22/99	10:30	00:06	168:01	Manual Shut-Down System	Modify System Configuration (Week 13 scenario)	
4/22/99	10:36	-	-	Re-Start SVE System	SVE 13 & SVE 14 w/ dilution (notch 9)	
4/22/99	11:06	00:30	00:30	30 Minute Sample Event	"	
4/22/99	12:36	01:30	02:00	2 Hour Sample Event	"	
4/22/99	12:43	00:07	02:07	Gauge Readings	"	
4/22/99	16:36	03:53	06:00	6 Hour Sample Event	"	
4/29/99	8:56	160:20	166:20	7 Day Sample Event	"	
4/29/99	9:07	00:11	166:31	Manual Shut-Down System	Modify System Configuration (Week 14 scenario)	
4/29/99	9:11	-	-	Re-Start SVE System	SVE 6 & SVE 8 w/ dilution (notch 9)	
4/29/99	9:41	00:30	00:30	30 Minute Sample Event	"	
4/29/99	11:12	01:31	02:01	2 Hour Sample Event	"	
4/29/99	11:25	00:13	02:14	Gauge Readings	"	
4/29/99	15:09	03:44	05:58	6 Hour Sample Event	"	
5/2/99	12:48	69:39	75:37	System down due to alarm condition	Modify System Configuration (Week 15 scenario)	Unknown alarm condition.
5/6/99	10:29	-	-	Re-Start SVE System	SVE 9 & SVE 11 w/ dilution (notch 9)	
5/6/99	10:59	00:30	00:30	30 Minute Sample Event	"	
5/6/99	12:29	01:30	02:00	2 Hour Sample Event	"	
5/6/99	12:50	00:21	02:21	Gauge Readings	"	
5/6/99	16:27	03:37	05:58	6 Hour Sample Event	"	
5/13/99	10:29	162:02	168:00	7 Day Sample Event	"	
5/13/99	10:42	00:13	168:13	Manual Shut-Down System	Modify System Configuration (Week 16 (scenario A of long term operation))	
					SVE 13 & SVE 14 w/ dilution (notch 9)	

- Highlight
- Carbon changeout completed before implementation of Operation & Maintenance.
 - 1250 lbs of carbon placed in each carbon unit at changeout.
 - 20 hp blower active for 2052.07 hours.
 - 3 hp blower active for 951.13 hours.
 - SVE wells 6 & 8 active for 672.03 hours.
 - SVE wells 9 & 11 active for 789.92 hours.
 - SVE wells 13 & 14 active for 590.18 hours.
 - 15 routine O&M site visits completed.
 - 6 alarm was triggered during operation.
 - 2 additional alarm response visits.
 - Operation of the soil impoundment discontinued on 3/11/99.
 - Dilution valve opened on 3/22/99.
 - 7 day samples were not collected at the end of Weeks 7, 9 & 14 due to alarm conditions.
 - Sample collection schedule changes incorporated on 2/18/99 and 3/18/99

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

SUMMARY OF ALARM CONDITIONS TRIGGERED DURING OPERATION

Table Purpose: To present a summary of alarm conditions triggered and corrective actions taken as a result, if any.

Date	Alarm Acknowledged	Alarm Condition	Action	Cause of Alarm	System Restart Time
2/23/99	7:16	3, 9	Check blowers for damage.	Cause unknown. Possible temporary interruption of power. (Thermal overload alarms trigger when power is returned to blowers)	2/25/1999 7:35
3/12/99	17:36	6	Check CGI reading. Check treatment shed with PID.	Unknown.	
3/15/99	7:07	Power Out		Power interrupted.	
3/15/99	8:24	6,3		Condition 3 when power returns to control panel.	3/18/99 10:50
3/20/99	7:22	6	Check CGI reading. Check treatment shed with PID.	Unknown.	
3/22/99	8:38	6,3		Temporary power loss.	3/22/99 16:49
				Condition 3 when power returns to control panel	
3/30/99	12:49	6	Check CGI reading. Check treatment shed with PID.	Unknown.	4/1/99 8:25
4/2/99	3:16	6	Check CGI reading. Check treatment shed with PID.	Unknown.	4/5/99 10:36
5/2/99	12:48	3	No action.	Temporary power loss.	5/6/99 10:21

Alarm Conditions	Alarm Description	Alarm Trigger Setting
1	High high moisture level, 20 HP separator	13.5 ° on sight glass
2	High vacuum switch, 20 HP blower	85° of W.C. at blower inlet
3	Thermal overload, 20 HP blower	
4	Low pressure switch, 20 HP blower	18° of W.C. at blower outlet
5	High carbon back-pressure	80 inches of W.C. at Pre-Carbon
6	Combustible gas indicator	18%
7	High high moisture level, 3 HP separator	13.5 ° on sight glass
8	High vacuum switch, 3 HP blower	69° of W.C. at blower inlet
9	Thermal overload, 3 HP blower	
10	Low pressure switch, 3 HP blower	2.5° of W.C. at blower outlet

- Highlights:
- Thermal overload alarms occurred on four different occasions.
 - When power returns to the control panel following a temporary power loss, the thermal overload alarms on both blower is triggered.
 - Combustible gas indicator (CGI) alarms occurred on four different occasions.
 - The cause of the CGI alarms is unknown. Calibration of CGI is planned in future.
 - Power to the SVE system was interrupted on 3/15/99 for approximately 1.5 hours.

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - MANIFOLD A (SMP 3) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold A sample location.

	Sample Date	Sample Time	PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	1-TCA (mg/m ³)	TCE (mg/m ³)	CF (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m&p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 1	1/28/99																			
	1/28/99																			
	1/28/99																			
	1/28/99																			
	1/28/99																			
	1/29/99																			
	2/4/99																			
WEEK 2	2/4/99	12:31	6.8E+01	0	0	0	0	0	6.4E-01	1.2	0	0	0	0	0	0	0	0	7.0E+01	Lab Results
	2/4/99	12:31	1.8E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8E+02	Converted from GC results
	2/4/99	12:54	3.1E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1E+02	Converted from GC results
	2/4/99	13:25	1.5E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5E+02	Converted from GC results
	2/4/99	14:26	2.6E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E+02	Converted from GC results
	2/4/99	16:24	2.1E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E+02	Converted from GC results
	2/4/99	20:24	3.9E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9E+01	Converted from GC results
	2/5/99	11:26	6.6E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6E+01	Converted from GC results
	2/11/99	9:29	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC results
WEEK 3	2/11/99	10:30	5.0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	6.2	Lab Results
	2/11/99	10:30	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC results
	2/11/99	10:53	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC results
	2/11/99	11:23	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	Converted from GC results
	2/11/99	12:23	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC results
	2/11/99	14:23	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	Converted from GC results
	2/11/99	18:23	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	Converted from GC results
	2/12/99	9:23	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	Converted from GC results
	2/18/99	9:40	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC results
WEEK 4	2/18/99																			
	2/18/99																			
	2/18/99																			
	2/25/99																			
	2/25/99																			
WEEK 5	2/25/99	13:00	5.4E+01	0	5.2E-01	2.4E-01	0	3.0E-01	0	0	0	0	0	0	0	0	0	4.6E-01	5.6E+01	Lab Results
	2/25/99	13:00	1.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+01	Converted from GC results
	2/25/99	14:33	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.5	Converted from GC results
	2/25/99	20:22	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	Converted from GC results
	3/4/99	9:13	2.1E+01	0	6.0E-01	0	0	7.2E-02	0	3.1E-02	0	0	1.7E-01	4.0E-02	1.7E-01	4.4E-02	0	0	2.2E+01	Lab Results
	3/4/99	9:13	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	Converted from GC results
WEEK 6	3/4/99	10:12	6.0E-01	0	7.0E-01	3.0E-02	0	1.8E-02	0	2.4E-03	0	4.1E-02	3.2E-01	9.0E-02	3.3E-01	1.1E-01	0	3.9E-02	2.3	Lab Results
	3/4/99	10:12	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	3/4/99	11:49	8.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3E-01	Converted from GC results
	3/4/99	17:42	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	Converted from GC results
	3/11/99	9:05	6.2	0	0	0	0	0	0	0	0	0	1.6E-02	0	0	0	0	0	6.2	Lab Results
	3/11/99	9:05	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7	Converted from GC results

AIR QUALITY DATA - MANIFOLD A (SMP 3) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold A sample location.

	Sample Date	Sample Time	PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	1-TCA (mg/m ³)	TCE (mg/m ³)	CF (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 7	3/11/99																			
	3/11/99																			
	3/11/99																			
	3/11/99																			
WEEK 8	3/18/99																			
	3/18/99																			
	3/18/99																			
	3/25/99																			
WEEK 9	3/25/99	10:02	2.0E+01	8.6E-01	4.4	1.8E-01	0	0	0	0	6.3E-02	5.8E-02	0	0	0	0	0	4.3E-01	2.6E+01	Lab Results
	3/25/99	10:02	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	Converted from GC results
	3/25/99	11:30	5.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.7	Converted from GC results
	3/25/99	15:30	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	Converted from GC results
WEEK 10	4/1/99	8:57	5.2	1.7E-01	5.8E-01	0	0	0	0	0	0	0	2.8E-02	0	0	0	0	2.8E-01	6.3	Lab Results
	4/1/99	8:57	5.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5E-01	Converted from GC results
	4/1/99	10:30	9.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-01	Converted from GC results
	4/1/99	14:30	6.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-01	Converted from GC results
WEEK 11	4/8/99	8:03	8.2	1.2E-01	1.2E-01	3.2E-02	0	0	0	0	0	1.1E-02	2.2E-02	0	0	0	0	0	8.5	Lab Results
	4/8/99	8:03	9.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.2E-01	Converted from GC results
	4/8/99																			
	4/8/99																			
WEEK 12	4/15/99	11:07	3.0E+01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0E+01	Lab Results
	4/15/99	11:07	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8	Converted from GC results
	4/15/99	12:31	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8	Converted from GC results
	4/15/99	16:34	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8	Converted from GC results
WEEK 13	4/22/99	10:20	1.1E+01	8.7E-03	8.6E-02	6.1E-03	5.2E-03	6.8E-02	8.2E-02	5.2E-02	0	3.1E-03	6.8E-03	1.3E-03	3.6E-03	8.4E-04	8.7E-04	0	1.1E+01	Lab Results
	4/22/99	10:20	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	Converted from GC results
	4/22/99	11:11	3.3E-01	1.3E-02	2.5E-02	6.8E-03	0	0	0	0	0	1.6E-03	2.8E-02	6.0E-03	2.1E-02	3.5E-03	3.3E-03	9.3E-03	4.4E-01	Lab Results
	4/22/99	11:11	6.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-01	Converted from GC results
WEEK 14	4/29/99	12:40	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC results
	4/29/99	16:42	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC results
	4/29/99	9:01	2.2	0	2.0E-01	0	0	0	0	0	0	0	2.6E-02	0	1.4E-02	0	0	0	2.4	Lab Results
	4/29/99	9:01	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC results
WEEK 15	5/6/99	11:02	2.3E+01	0	0	0	0	9.3E-02	0	0	0	0	0	0	0	0	0	1.2E-01	2.3E+01	Lab Results
	5/6/99	11:02	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.4	Converted from GC results
	5/6/99	12:35	1.6E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6E+01	Converted from GC results
	5/6/99	16:34	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1	Converted from GC results
WEEK 15	5/13/99	10:36	1.0E+01	0	7.3E-01	0	0	0	0	0	0	0	0	0	0	0	0	4.4E-01	1.1E+01	Lab Results
	5/13/99	10:36	1.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+01	Converted from GC results

- Highlights
- Manifold A was not active during Weeks 1, 4, 7, 8 11, and 14.
 - Manifold A was connected to SVE well 11 during Weeks 2, 5, 9, 12 and 15.
 - Manifold A was connected to SVE well 13 during Weeks 3, 6, 10, and 13.

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - MANIFOLD B (SMP 4) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold B sample location.

	Sample Date	Sample Time	PCB (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CB (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CY (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 1	1/28/99	14:20	6.4E+01	0	0	1.8E-01	0	0	5.4E-01	0	0	0	0	0	0	0	0	6.3E+01	Lab Results
	1/28/99	14:20	1.6E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6E+01	Converted from GC results
	1/28/99	14:49	6.7E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7E+01	Converted from GC results
	1/28/99	15:13	7.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2E+01	Converted from GC results
	1/28/99	18:13	9.4E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.4E+01	Converted from GC results
	1/28/99	21:50	9.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8E+01	Converted from GC results
	1/29/99	12:45	9.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8E+01	Converted from GC results
	2/4/99	10:00	2.9E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9E+01	Converted from GC results
WEEK 2	2/4/99	12:28	9.0	0	0	0	0	0	1.3E-01	0	0	0	0	0	0	0	0	9.2	Lab Results
	2/4/99	12:28	2.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E+01	Converted from GC results
	2/4/99	12:52	6.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1E+01	Converted from GC results
	2/4/99	13:23	3.0E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E+01	Converted from GC results
	2/4/99	14:23	2.5E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5E+01	Converted from GC results
	2/4/99	16:22	1.9E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9E+01	Converted from GC results
	2/4/99	20:21	4.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3E+01	Converted from GC results
	2/5/99	11:23	2.7E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7E+01	Converted from GC results
WEEK 3	2/11/99	9:27	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	Converted from GC results
	2/11/99																		
	2/11/99																		
	2/11/99																		
	2/11/99																		
	2/11/99																		
	2/11/99																		
	2/12/99																		
WEEK 4	2/18/99																		
	2/18/99	10:29	3.4	0	0	0	0	0	0	0	0	2.2E-02	0	0	0	0	0	3.4	Lab Results
	2/18/99	10:29	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC results
	2/18/99	11:59	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6E-01	Converted from GC results
	2/18/99	17:58	9.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-01	Converted from GC results
	2/25/99	11:36	8.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.2	Lab Results
	2/25/99	11:36	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Converted from GC results
	2/25/99	12:58	8.0	0	1.5E-01	5.2E-02	0	0	1.7E-02	0	0	0	0	0	0	0	0	8.2	Lab Results
WEEK 5	2/25/99	12:58	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3	Converted from GC results
	2/25/99	14:30	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9	Converted from GC results
	2/25/99	20:20	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8	Converted from GC results
	3/4/99	9:10	2.4	0	1.6E-01	0	0	1.8E-02	1.8E-02	0	0	3.4E-02	4.6E-03	2.6E-02	7.0E-03	0	0	2.7	Lab Results
	3/4/99	9:10	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	Converted from GC results
	3/4/99																		
	3/4/99																		
	3/11/99																		
WEEK 6	3/11/99																		
	3/11/99																		

AIR QUALITY DATA - MANIFOLD B (SMP 4) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold B sample location.

	Sample Date	Sample Time	FCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 7	3/11/99	10:21	4.4	0	8.2E-02	0	0	0	0	0	0	2.8E-02	0	0	0	0	0	4.5	Lab Results
	3/11/99	10:21	9.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-01	Converted from GC results
	3/11/99	11:34	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Converted from GC results
	3/11/99	17:20	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	Converted from GC results
WEEK 8	3/18/99	11:23	4.4	5.1E-02	5.9E-02	2.1E-02	0	1.7E-02	6.3E-03	0	0	0	0	0	0	0	5.6E-02	4.6	Lab Results
	3/18/99	11:23	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	Converted from GC results
	3/18/99	12:55	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	Converted from GC results
	3/18/99	16:53	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7	Converted from GC results
	3/25/99	9:00	3.4	2.7E-01	4.4E-02	5.5E-03	0	0	3.5E-02	0	2.4E-02	1.7E-02	0	0	0	0	5.7E-02	3.9	Lab Results
	3/25/99	9:00	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC results
WEEK 9	3/25/99	10:07	4.3	6.1E-02	3.2E-02	0	0	0	1.9E-02	0	5.8E-02	0	0	0	0	0	4.3E-01	4.9	Lab Results
	3/25/99	10:07	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC results
	3/25/99	11:34	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	Converted from GC results
	3/25/99	15:33	9.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6E-01	Converted from GC results
WEEK 10	4/1/99																		
	4/1/99																		
	4/1/99																		
	4/8/99																		
WEEK 11	4/8/99	9:04	7.2	0	8.0E-02	6.0E-02	0	0	0	0	0	5.2E-02	0	0	0	0	0	7.4	Lab Results
	4/8/99	9:04	9.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-01	Converted from GC results
	4/8/99	10:30	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC results
	4/8/99	14:31	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	Converted from GC results
	4/15/99	10:12	2.5	0	1.5E-01	0	0	0	0	0	0	0	0	0	0	0	0	2.7	Lab Results
	4/15/99	10:12	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	Converted from GC results
WEEK 12	4/15/99	11:02	4.8	0	2.2	0	0	0	0	0	0	0	0	0	0	0	0	7.0	Lab Results
	4/15/99	11:02	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC results
	4/15/99	12:35	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	Converted from GC results
	4/15/99	16:31	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3	Converted from GC results
	4/22/99	10:17	2.4	4.4E-03	1.8E-02	8.2E-03	0	1.9E-02	2.6E-02	0	1.1E-03	1.3E-02	1.1E-03	6.6E-03	2.4E-03	2.4E-03	0	2.5	Lab Results
	4/22/99	10:17	8.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3E-01	Converted from GC results
WEEK 13	4/22/99																		
	4/22/99																		
	4/22/99																		
	4/29/99																		
WEEK 14	4/29/99	9:45	6.8	0	0	0	0	0	2.9E-02	0	0	6.8E-02	0	1.9E-02	0	0	0	6.9	Lab Results
	4/29/99	9:45	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	4/29/99	11:17	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	4/29/99	15:12	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3	Converted from GC results
WEEK 15	5/6/99	11:05	3.4	0	1.3E-01	0	0	0	2.2E-02	0	0	3.0E-02	0	8.6E-03	0	0	0	3.6	Lab Results
	5/6/99	11:05	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	5/6/99	12:32	7.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6E-01	Converted from GC results
	5/6/99	16:31	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	Converted from GC results
	5/13/99	10:32	1.4	1.9E-02	0	0	0	0	1.0E-02	0	0	1.8E-02	0	6.5E-03	0	0	2.1E-02	1.5	Lab Results
	5/13/99	10:32	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	Converted from GC results

- Highlights:
- Manifold B was not active during Weeks 3, 6, 10 and 13.
 - Manifold B was connected to SVE well 9 during Weeks 2, 5, 9, 12 and 15.
 - Manifold B was connected to SVE well 6 during Weeks 1, 4, 7, 8, 11, and 14.

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - MANIFOLD C (SMP 2) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold C sample location.

	Sample Date	Sample Time	PCB (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	2-TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m&p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 1	1/28/99	14:27	4.0E+01	0	1.1	3.9E-01	0	0	0	1.2	0	2.1E-01	0	0	0	0	0	2.7	4.6E+01	Lab Results
	1/28/99	14:27	1.1E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+02	Converted from GC results
	1/28/99	14:53	1.2E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E+02	Converted from GC results
	1/28/99	15:16	2.2E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E+02	Converted from GC results
	1/28/99	18:18	2.1E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E+02	Converted from GC results
	1/28/99	21:56	1.4E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E+02	Converted from GC results
	1/29/99	12:51	2.4E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4E+02	Converted from GC results
WEEK 2	2/4/99	10:02	6.4E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4E+01	Converted from GC results
	2/4/99																			
	2/4/99																			
	2/4/99																			
	2/4/99																			
	2/5/99																			
	2/11/99																			
WEEK 3	2/11/99	10:33	2.3E+01	0	4.1E-01	1.3E-01	0	9.2E-02	0	0	0	0	0	0	0	0	0	0	2.4E+01	Lab Results
	2/11/99	10:33	1.0E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E+01	Converted from GC results
	2/11/99	10:54	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	Converted from GC results
	2/11/99	11:24	1.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E+01	Converted from GC results
	2/11/99	12:24	1.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E+01	Converted from GC results
	2/11/99	14:25	1.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+01	Converted from GC results
	2/11/99	18:24	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	Converted from GC results
WEEK 4	2/11/99	9:24	2.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E+01	Converted from GC results
	2/18/99	9:43	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	Converted from GC results
	2/18/99	10:33	3.3	0	9.3E-02	3.2E-02	0	3.7E-02	0	3.3E-02	0	0	0	0	0	0	0	0	3.3	Lab Results
	2/18/99	10:33	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	Converted from GC results
	2/18/99	12:03	6.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	Converted from GC results
	2/18/99	18:00	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	Converted from GC results
	2/25/99	11:39	1.7E+01	0	1.7E-01	5.2E-02	0	3.7E-01	0	9.3E-02	0	0	0	0	0	0	0	0	1.8E+01	Lab Results
WEEK 5	2/25/99	11:39	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	Converted from GC results
	2/25/99																			
	2/25/99																			
	2/25/99																			
	3/4/99																			
	3/4/99																			
	3/4/99																			
WEEK 6	3/4/99	10:16	1.3E+01	0	1.3	0	0	1.6E-01	0	0	0	0	3.1E-01	0	2.4E-01	5.1E-02	0	0	1.3E+01	Lab Results
	3/4/99	10:16	4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	Converted from GC results
	3/4/99	11:47	4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	Converted from GC results
	3/4/99	17:45	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	/	Converted from GC results
	3/11/99	9:09	1.3E+01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3E+01	Lab Results
	3/11/99	9:09	7.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1	Converted from GC results

AIR QUALITY DATA - MANIFOLD C (SMP 2) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold C sample location.

	Sample Date	Sample Time	PCB (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	PCA (mg/m ³)	2-PCA (mg/m ³)	TCB (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 1	3/11/99	10:18	6.6	0	6.0E-02	0	0	4.6E-02	0	4.8E-02	0	0	3.0E-02	0	0	0	0	0	6.8	Lab Results
	3/11/99	10:18	9.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3E-01	Converted from GC results
	3/11/99	11:36	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	Converted from GC results
	3/11/99	17:25	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	Converted from GC results
WEEK 8	3/18/99	11:27	8.7	1.6E-01	8.7E-01	0	0	1.6E-01	0	4.0E-02	0	1.9E-02	3.7E-02	0	0	0	0	1.3E-01	1.0E+01	Lab Results
	3/18/99	11:27	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7	Converted from GC results
	3/18/99	12:57	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	Converted from GC results
	3/18/99	16:56	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	Converted from GC results
	3/25/99	8:57	1.2E+01	2.2E-01	1.3E-01	6.3E-02	0	1.1E-01	0	3.7E-02	0	1.6E-02	0	0	0	0	0	2.3E-01	1.3E+01	Lab Results
	3/25/99	8:57	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	Converted from GC results
WEEK 9	3/25/99																			
	3/25/99																			
	3/25/99																			
	3/25/99																			
WEEK 10	4/1/99	9:00	4.3E+01	4.3E-01	2.0	0	0	5.0E-01	0	0	0	0	4.3E-02	0	0	0	0	6.7E-01	4.7E+01	Lab Results
	4/1/99	9:00	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	Converted from GC results
	4/1/99	10:32	5.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	Converted from GC results
	4/1/99	14:32	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	Converted from GC results
	4/8/99	8:00	1.7E+01	0	0	0	0	1.1E-01	0	0	0	0	0	0	0	0	0	3.9E-01	1.7E+01	Lab Results
	4/8/99	8:00	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Converted from GC results
WEEK 11	4/8/99	9:00	7.2	1.5E-01	8.4E-02	2.5E-02	0	0	1.2E-01	0	0	3.4E-02	0	0	0	0	0	1.4E-01	7.8	Lab Results
	4/8/99	9:00	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	4/8/99	10:33	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	4/8/99	14:33	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	Converted from GC results
	4/15/99	10:07	6.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.7	Lab Results
	4/15/99	10:07	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	Converted from GC results
WEEK 12	4/15/99																			
	4/15/99																			
	4/15/99																			
	4/15/99																			
	4/22/99																			
WEEK 13	4/22/99	11:15	9.2	8.0E-01	1.6E-01	0	0	1.1E-01	0	0	0	1.0E-01	4.8E-02	0	0	0	0	0	1.0E+01	Lab Results
	4/22/99	11:15	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	Converted from GC results
	4/22/99	12:42	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	Converted from GC results
	4/22/99	16:44	5.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	Converted from GC results
	4/29/99	9:04	3.8	5.5E-02	0	0	0	0	6.8E-02	0	0	0	2.2E-02	0	0	0	0	0	3.9	Lab Results
	4/29/99	9:04	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9	Converted from GC results
WEEK 14	4/29/99	9:48	5.6	9.6E-02	0	0	0	6.8E-02	1.4E-01	1.6E-01	0	1.8E-02	9.6E-02	0	5.9E-02	0	0	0	6.2	Lab Results
	4/29/99	9:48	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	Converted from GC results
	4/29/99	11:20	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC results
	4/29/99	15:14	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	Converted from GC results
WEEK 15	5/6/99																			
	5/6/99																			
	5/6/99																			
	5/6/99																			
	5/13/99																			

- Highlights:
- Manifold C was not active during Weeks 2, 5, 9, 12 and 15.
 - Manifold C was connected to SVE well 14 during Weeks 3, 6, 10 and 13.
 - Manifold C was connected to SVE well 8 during Weeks 1, 4, 7, 8, 11 and 14.

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - SI MANIFOLD (SMP 1) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the SI Manifold sample location.

	Sample Date	Sample Time	PCB (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	DCA (mg/m ³)	trans-DCE (mg/m ³)	cis-DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 1	1/28/99	14:35	1.4E-01	0	4.3E-02	1.2E-02	0	0	0	0	9.0E-02	1.3E-02	0	3.2E-03	2.5E-02	3.8E-03	1.1E-02	4.2E-03	1.9E-03	3.2E-03	3.5E-01	Lab Results
	1/28/99	14:35	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	Converted from GC results
	1/28/99	14:59	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	1/28/99	15:22	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	Converted from GC results
	1/28/99	18:20	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	1/28/99	21:59	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	Converted from GC results
	1/29/99	12:57	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	Converted from GC results
WEEK 2	2/4/99	10:05	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	Converted from GC results
	2/4/99	12:34	3.4E-01	0	0	5.8E-03	8.3E-03	0	0	0	2.2E-02	0	0	0	1.8E-02	0	7.9E-03	0	0	0	4.0E-01	Lab Results
	2/4/99	12:34	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	Converted from GC results
	2/4/99	12:56	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	Converted from GC results
	2/4/99	13:26	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Converted from GC results
	2/4/99	14:28	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	Converted from GC results
	2/4/99	16:25	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	Converted from GC results
WEEK 3	2/4/99	20:26	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC results
	2/5/99	11:28	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	2/11/99	9:35	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8	Converted from GC results
	2/11/99	10:37	1.3E-02	0	0	5.5E-03	0	0	0	0	2.7E-03	0	0	2.5E-03	8.9E-03	1.2E-03	6.4E-03	1.9E-03	0	0	4.2E-02	Lab Results
	2/11/99	10:37	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC results
	2/11/99	10:56	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	2/11/99	11:26	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted from GC results
WEEK 4	2/11/99	12:26	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC results
	2/11/99	14:28	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/11/99	18:26	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	2/12/99	9:26	6.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-01	Converted from GC results
	2/18/99	9:45	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	2/18/99	10:36	2.5E-02	0	7.6E-03	9.0E-03	0	0	0	0	3.7E-03	2.0E-03	0	2.7E-03	2.0E-02	4.1E-03	1.1E-02	3.2E-03	2.1E-03	0	9.0E-02	Lab Results
	2/18/99	12:05	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
WEEK 5	2/18/99	18:04	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	2/25/99	11:42	5.0E-02	0	1.4E-02	6.3E-03	0	0	0	0	8.1E-03	1.8E-03	1.5E-03	2.1E-03	1.8E-02	3.4E-03	9.4E-03	2.9E-03	2.2E-03	0	1.2E-01	Lab Results
	2/25/99	11:42	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
	2/25/99	13:02	2.6E-02	0	1.2E-01	5.7E-03	0	0	0	0	1.1E-02	1.8E-03	1.4E-03	2.8E-03	1.9E-02	3.7E-03	1.1E-02	3.4E-03	2.2E-03	1.9E-03	2.1E-01	Lab Results
	2/25/99	14:35	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
	2/25/99	20:24	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC results
	3/4/99	9:17	1.5E-02	1.2E-02	0	0	0	0	0	0	3.7E-03	8.8E-04	0	0	9.7E-03	1.3E-03	4.9E-03	2.0E-03	0	1.5E-02	6.5E-02	Lab Results
WEEK 6	3/4/99	9:17	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	3/4/99	10:20	1.1E-01	0	0	0	4.4E-03	0	0	0	4.6E-02	2.9E-03	8.2E-04	0	1.5E-02	2.8E-03	9.7E-03	3.4E-03	0	0	1.9E-01	Lab Results
	3/4/99	11:42	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
	3/4/99	17:47	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	3/11/99	9:12	6.6E-02	0	1.2E-02	7.3E-03	0	0	0	0	5.9E-03	2.6E-03	8.9E-04	2.2E-03	2.4E-02	5.8E-03	1.4E-02	3.8E-03	2.3E-03	0	1.5E-01	Lab Results
	3/11/99	9:12	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	3/11/99	10:02	6.8	0	2.9E-02	1.4E-02	8.3E-03	3.7E-02	5.3E-02	1.9	8.8E-02	2.2E-01	0	5.3E-03	1.1E-01	5.9E-03	1.7E-02	6.7E-03	0	4.2E-02	9.3	Lab Results
WEEK 7	3/11/99	10:02	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	/	Converted from GC results

- Highlights:
- South SI manifold active during Week 1.
 - Middle SI manifold active during Week 2.
 - North SI manifold active during Week 3.
 - Front header screen of the North and South SI manifold active during Week 4.
 - Back header screens of the North and South SI manifolds active during Week 5.
 - Front header screen of the Middle SI manifold active during Week 6.

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - MANIFOLD A (SMP 3) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold A sample location.

Sample Date	Sample Time	PCB (ppm)	CHL34 (ppm)	MC (ppm)	CS (ppm)	DCP (ppm)	TCA (ppm)	1-TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m,p-Xylene (ppm)	p-Xylene (ppm)	m-Xylene (ppm)	BBA (ppm)	TOTAL VOC (ppm)	COMMENTS
WEEK 1	1/28/99																		
	1/28/99																		
	1/28/99																		
	1/28/99																		
	1/28/99																		
	1/29/99																		
	2/4/99																		
WEEK 2	2/4/99	12:31	9.9	0	0	0	0	0	1.2E-01	2.2E-01	0	0	0	0	0	0	0	1.0E+01	Converted from Lab results
	2/4/99	12:31	2.6E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E+01	GC results
	2/4/99	12:54	4.5E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5E+01	GC results
	2/4/99	13:25	2.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E+01	GC results
	2/4/99	14:26	3.7E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7E+01	GC results
	2/4/99	16:24	3.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1E+01	GC results
	2/4/99	20:24	5.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.7	GC results
	2/5/99	11:26	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	GC results
	2/11/99	9:29	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	GC results
WEEK 3	2/11/99	10:30	7.3E-01	0	0	0	0	0	2.2E-01	0	0	0	0	0	0	0	0	9.5E-01	Converted from Lab results
	2/11/99	10:30	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC results
	2/11/99	10:33	2.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7E-01	GC results
	2/11/99	11:23	3.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9E-01	GC results
	2/11/99	12:23	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	GC results
	2/11/99	14:23	3.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3E-01	GC results
	2/11/99	18:23	8.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7E-01	GC results
	2/12/99	9:23	9.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-01	GC results
	2/18/99	9:40	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	GC results
WEEK 4	2/18/99																		
	2/18/99																		
	2/18/99																		
	2/25/99																		
WEEK 5	2/25/99	13:00	7.8	0	1.5E-01	7.7E-02	0	5.4E-02	0	0	0	0	0	0	0	0	0	8.2	Converted from Lab results
	2/25/99	13:00	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	GC results
	2/25/99	14:33	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	GC results
	2/25/99	20:22	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	GC results
	3/4/99	9:13	3.0	0	1.7E-01	0	0	1.3E-02	0	5.7E-03	0	0	4.6E-02	9.1E-03	3.9E-02	1.0E-02	0	3.3	Converted from Lab results
	3/4/99	9:13	8.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1E-01	GC results
WEEK 6	3/4/99	10:12	8.7E-02	0	2.0E-01	9.5E-03	0	3.2E-03	0	4.5E-04	0	1.3E-02	8.4E-02	2.0E-02	7.6E-02	2.6E-02	0	5.3E-01	Converted from Lab results
	3/4/99	10:12	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	GC results
	3/4/99	11:49	1.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E-01	GC results
	3/4/99	17:42	1.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5E-01	GC results
	3/11/99	9:05	9.0E-01	0	0	0	0	0	0	0	0	4.1E-03	0	0	0	0	0	9.0E-01	Converted from Lab results
	3/11/99	9:05	5.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3E-01	GC results

AIR QUALITY DATA - MANIFOLD A (SMP 3) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold A sample location.

	Sample Date	Sample Time	PCE (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	2-TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m,p-Xylene (ppm)	p-Xylene (ppm)	Styrene (ppm)	BM (ppm)	TOTAL VOC (ppm)	COMMENTS
WEEK 7	3/11/99																			
	3/11/99																			
	3/11/99																			
	3/11/99																			
WEEK 8	3/18/99																			
	3/18/99																			
	3/18/99																			
	3/25/99																			
WEEK 9	3/25/99	10:02	2.9	4.2E-01	1.2	5.6E-02	0	0	0	0	0	1.8E-02	0	0	0	0	0	1.1E-01	4.8	Converted from Lab results
	3/25/99	10:02	7.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.4E-01	GC results
	3/25/99	11:30	8.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2E-01	GC results
	3/25/99	15:30	6.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6E-01	GC results
WEEK 10	4/1/99	8:57	7.5E-01	8.3E-02	1.6E-01	0	0	0	0	0	0	0	7.4E-03	0	0	0	0	7.2E-02	1.1	Converted from Lab results
	4/1/99	8:57	8.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.0E-02	GC results
	4/1/99	10:30	1.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC results
	4/1/99	14:30	1.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-01	GC results
WEEK 11	4/8/99	8:03	1.2	5.6E-02	3.5E-02	1.0E-02	0	0	0	0	0	3.5E-03	5.8E-03	0	0	0	0	0	1.3	Converted from Lab results
	4/8/99	8:03	1.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC results
	4/8/99																			
	4/15/99																			
WEEK 12	4/15/99	11:07	4.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.4	Converted from Lab results
	4/15/99	11:07	9.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.9E-01	GC results
	4/15/99	12:31	6.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-01	GC results
	4/15/99	16:34	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	GC results
WEEK 13	4/22/99	10:20	1.6	4.2E-03	2.4E-02	2.0E-03	1.3E-03	1.2E-02	1.5E-02	9.6E-03	0	9.7E-04	1.8E-03	2.9E-04	8.3E-04	1.9E-04	2.1E-04	0	1.7	Converted from Lab results
	4/22/99	10:20	7.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2E-01	GC results
	4/22/99	11:11	4.7E-02	6.0E-03	7.1E-03	2.2E-03	0	0	0	0	0	5.0E-04	7.3E-03	1.4E-03	4.8E-03	8.0E-04	7.6E-04	2.4E-03	8.0E-02	Converted from Lab results
	4/22/99	11:11	1.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-01	GC results
WEEK 14	4/22/99	12:40	1.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7E-01	GC results
	4/22/99	16:42	2.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7E-01	GC results
	4/29/99	9:01	3.2E-01	0	5.7E-02	0	0	0	0	0	0	0	6.9E-03	0	3.2E-03	0	0	0	3.9E-01	Converted from Lab results
	4/29/99	9:01	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	GC results
WEEK 15	5/6/99																			
	5/6/99	11:02	3.3	0	0	0	0	1.7E-02	0	0	0	0	0	0	0	0	0	3.1E-02	3.4	Converted from Lab results
	5/6/99	11:02	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	GC results
	5/6/99	12:35	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	GC results
WEEK 16	5/6/99	16:34	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	GC results
	5/13/99	10:36	1.5	0	2.1E-01	0	0	0	0	0	0	0	0	0	0	0	0	1.1E-01	1.8	Converted from Lab results
	5/13/99	10:36	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	GC results

1 ppm = 1 mg/m³ (OQOHS, 1997)

PCE - TETRACHLOROETHENE
CHLM - CHLOROMETHANE
MC - METHYLENE CHLORIDE
CD - CARBON DISULFIDE
DCE - 1,1-DICHLOROETHENE
TCA - 1,1,1-TRICHLOROETHANE
CF - CHLOROFORM
2-TCA - 1,1,2-TRICHLOROETHANE

TCE - TRICHLOROETHENE
EB - ETHYLBENZENE
BENZENE
TOLUENE
XYLENE
STYRENE
BM - BROMOMETHANE

1 ppm = 1 mg/m³ (OQOHS, 1997)

5.4
4.41
3.19
3.77
4.34
4.26
3.89

AIR QUALITY DATA - MANIFOLD B (SMP 4) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold B sample location.

		PCE	CHLM	MC	CD	DCE	TCA	TCE	CT	Benzene	Toluene	EB	p-Xylen	m-Xylene	Styrene	BM	TOTAL VOC	COMMENTS
Sample Date	Sample Time	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
WEEK 1	1/28/99	14:20	9.3	0	0	5.8E-02	0	0	1.0E-01	0	0	0	0	0	0	0	9.4	Converted from Lab results
	1/28/99	14:20	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	GC results
	1/28/99	14:49	9.7	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	GC results
	1/28/99	15:13	1.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+01	GC results
	1/28/99	18:13	1.4E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E+01	GC results
	1/28/99	21:50	1.4E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E+01	GC results
	1/29/99	12:45	1.4E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E+01	GC results
	2/4/99	10:00	4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2	GC results
WEEK 2	2/4/99	12:28	1.3	0	0	0	0	2.8E-02	0	0	0	0	0	0	0	0	1.3	Converted from Lab results
	2/4/99	12:28	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0	GC results
	2/4/99	12:52	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8	GC results
	2/4/99	13:23	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4	GC results
	2/4/99	14:23	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	GC results
	2/4/99	16:22	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	GC results
	2/4/99	20:21	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	GC results
	2/5/99	11:23	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9	GC results
2/11/99	9:27	3.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3E-01	GC results	
WEEK 3	2/11/99																	
	2/11/99																	
	2/11/99																	
	2/11/99																	
	2/11/99																	
	2/11/99																	
	2/12/99																	
	2/18/99																	
WEEK 4	2/18/99	10:29	4.9E-01	0	0	0	0	0	0	0	5.8E-03	0	0	0	0	0	5.0E-01	Converted from Lab results
	2/18/99	10:29	1.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8E-01	GC results
	2/18/99	11:59	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	GC results
	2/18/99	17:58	1.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC results
	2/25/99	11:36	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	Converted from Lab results
	2/25/99	11:36	2.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E-01	GC results
WEEK 5	2/25/99	12:58	1.2	0	4.3E-02	1.7E-02	0	0	3.1E-03	0	0	0	0	0	0	0	1.22	Converted from Lab results
	2/25/99	12:58	6.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3E-01	GC results
	2/25/99	14:30	5.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6E-01	GC results
	2/25/99	20:20	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	GC results
	3/4/99	9:10	3.5E-01	0	4.5E-02	0	0	3.2E-03	3.3E-03	0	0	9.0E-03	1.0E-03	6.0E-03	1.6E-03	0	4.2E-01	Converted from Lab results
	3/4/99	9:10	/	-	-	-	-	-	-	-	-	-	-	-	-	-	/	GC results
WEEK 6	3/4/99																	
	3/4/99																	
	3/4/99																	
	3/11/99																	
	3/11/99																	

AIR QUALITY DATA - MANIFOLD B (SMP 4) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold B sample location.

Sample Date		Sample Time	PCE (ppm)	CHL3M (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	TCF (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	p-Xylene (ppm)	m-Xylene (ppm)	Styrene (ppm)	BM (ppm)	TOTAL VOC (ppm)	COMMENTS
WEEK 7	3/11/99	10:21	6.4E-01	0	2.3E-02	0	0	0	0	0	0	7.4E-03	0	0	0	0	0	6.7E-01	Converted from Lab results
	3/11/99	10:21	1.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC results
	3/11/99	11:34	2.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E-01	GC results
	3/11/99	17:20	2.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E-01	GC results
WEEK 8	3/18/99	11:23	6.4E-01	2.5E-02	1.7E-02	6.8E-03	0	3.1E-03	1.2E-03	0	0	0	0	0	0	0	1.4E-02	7.1E-01	Converted from Lab results
	3/18/99	11:23	6.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6E-01	GC results
	3/18/99	12:55	4.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9E-01	GC results
	3/18/99	16:53	5.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4E-01	GC results
	3/25/99	9:00	4.9E-01	1.3E-01	1.2E-02	1.8E-03	0	0	6.5E-03	0	7.5E-03	4.5E-03	0	0	0	0	1.5E-02	6.7E-01	Converted from Lab results
	3/25/99	9:00	1.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8E-01	GC results
WEEK 9	3/25/99	10:07	6.2E-01	2.9E-02	9.1E-03	0	0	0	3.5E-03	0	1.8E-02	0	0	0	0	0	1.1E-01	7.9E-01	Converted from Lab results
	3/25/99	10:07	1.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7E-01	GC results
	3/25/99	11:34	2.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3E-01	GC results
	3/25/99	15:33	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	GC results
WEEK 10	4/1/99																		
	4/1/99																		
	4/1/99																		
	4/1/99																		
	4/8/99																		
WEEK 11	4/8/99	9:04	1.0	0	2.3E-02	1.9E-02	0	0	0	0	0	1.4E-02	0	0	0	0	0	1.1	Converted from Lab results
	4/8/99	9:04	1.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC results
	4/8/99	10:30	3.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1E-01	GC results
	4/8/99	14:31	2.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3E-01	GC results
	4/15/99	10:12	3.6E-01	0	4.2E-02	0	0	0	0	0	0	0	0	0	0	0	0	4.1E-01	Converted from Lab results
	4/15/99	10:12	2.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E-01	GC results
WEEK 12	4/15/99	11:02	7.0E-01	0	6.2E-01	0	0	0	0	0	0	0	0	0	0	0	0	1.3	Converted from Lab results
	4/15/99	11:02	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	GC results
	4/15/99	12:35	2.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4E-01	GC results
	4/15/99	16:31	1.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9E-01	GC results
	4/22/99	10:17	3.5E-01	2.1E-03	5.0E-03	2.6E-03	0	3.4E-03	4.7E-03	0	3.5E-04	3.5E-03	2.5E-04	1.5E-03	5.5E-04	5.7E-04	0	3.7E-01	Converted from Lab results
	4/22/99	10:17	1.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E-01	GC results
WEEK 13	4/22/99																		
	4/22/99																		
	4/22/99																		
	4/22/99																		
	4/29/99																		
WEEK 14	4/29/99	9:45	9.9E-01	0	0	0	0	0	5.4E-03	0	0	1.8E-02	0	4.4E-03	0	0	0	1.0	Converted from Lab results
	4/29/99	9:45	2.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-01	GC results
	4/29/99	11:17	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	GC results
	4/29/99	15:12	1.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9E-01	GC results
WEEK 15	5/6/99	11:05	4.9E-01	0	3.6E-02	0	0	0	4.0E-03	0	0	8.1E-03	0	2.0E-03	0	0	0	5.4E-01	Converted from Lab results
	5/6/99	11:05	2.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-01	GC results
	5/6/99	12:32	1.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E-01	GC results
	5/6/99	16:31	2.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4E-01	GC results
	5/13/99	10:32	2.0E-01	9.3E-03	0	0	0	0	1.9E-03	0	0	4.7E-03	0	1.5E-03	0	0	5.3E-03	2.3E-01	Converted from Lab results
	5/13/99	10:32	2.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3E-01	GC results

1 ppm = 1 mg/m³ (NIOSH, 1997)

PCE - TETRACHLOROETHYLENE
CHL3M - CHLOROMETHANE
MC - METHYLENE CHLORIDE
CD - CARBON DISULFIDE
DCE - 1,1-DICHLOROETHYLENE
TCA - 1,1,1-TRICHLOROETHANE
CT - CARBON TETRACHLORIDE

TCF - TRICHLOROETHYLENE
EB - ETHYLBENZENE
BENZENE
TOLUENE
XYLENES
STYRENE
BM - BROMOMETHANE

1 ppm = 1 mg/m³ (NIOSH, 1997)

5.4
4.41
3.19
3.77
4.34
4.36
3.89

AIR QUALITY DATA - MANIFOLD C (SMP 2) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold C sample location.

			PCY	CHLM	MC	CD	DCY	TCA	1-TCA	TCE	CT	Benzene	Toluene	EB	m,p-Xylene	o-Xylene	Styrene	HM	TOTAL VOC	COMMENTS
Sample Date		Sample Time	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
WEEK 1	1/28/99	14:27	5.8	0	3.1E-01	1.3E-01	0	0	0	2.2E-01	0	6.6E-02	0	0	0	0	0	6.9E-01	6.3	Converted from Lab results
	1/28/99	14:27	1.6E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6E+01	GC results
	1/28/99	14:53	1.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8E+01	GC results
	1/28/99	15:16	3.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1E+01	GC results
	1/28/99	18:18	3.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1E+01	GC results
	1/28/99	21:56	2.0E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E+01	GC results
	1/29/99	12:51	3.4E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E+01	GC results
	2/4/99	10:02	9.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	GC results
WEEK 2	2/4/99																			
	2/4/99																			
	2/4/99																			
	2/4/99																			
	2/4/99																			
	2/5/99																			
	2/11/99																			
WEEK 3	2/11/99	10:33	3.3	0	1.2E-01	4.8E-02	0	1.7E-02	0	0	0	0	0	0	0	0	0	0	3.5	Converted from Lab results
	2/11/99	10:33	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E+01	1.3	GC results
	2/11/99	10:54	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	GC results
	2/11/99	11:24	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	GC results
	2/11/99	12:24	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	GC results
	2/11/99	14:25	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	GC results
	2/11/99	18:24	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	GC results
	2/11/99	9:24	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	GC results
	2/18/99	9:43	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	GC results
WEEK 4	2/18/99	10:33	4.8E-01	0	2.6E-02	1.0E-02	0	6.7E-03	0	6.1E-03	0	0	0	0	0	0	0	0	5.3E-01	Converted from Lab results
	2/18/99	10:33	4.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.89	4.2E-01	GC results
	2/18/99	12:03	1.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.69	1.0E-01	GC results
	2/18/99	18:00	6.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8E-01	GC results
	2/25/99	11:39	2.3	0	4.8E-02	1.7E-02	0	6.7E-02	0	1.7E-02	0	0	0	0	0	0	0	0	2.6	Converted from Lab results
	2/25/99	11:39	2.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4E-01	GC results
WEEK 5	2/25/99																			
	2/25/99																			
	2/25/99																			
	3/4/99																			
	3/4/99																			
WEEK 6	3/4/99	10:16	1.9	0	3.7E-01	0	0	2.9E-02	0	0	0	0	8.2E-02	0	5.5E-02	1.2E-02	0	0	2.4	Converted from Lab results
	3/4/99	10:16	6.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0E-01	GC results
	3/4/99	11:47	6.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0E-01	GC results
	3/4/99	17:45	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	/	GC results
	3/11/99	9:09	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.9	Converted from Lab results
	3/11/99	9:09	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	GC results

AIR QUALITY DATA - MANIFOLD C (SMP 2) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the Manifold C sample location.

	Sample Date	Sample Time	PCE (ppm)	CHL3M (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	2-TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m,p-Xylene (ppm)	o-Xylene (ppm)	Styrene (ppm)	BM (ppm)	TOTAL VOC (ppm)	COMMENTS
WEEK 7	3/11/99	10:18	9.6E-01	0	1.7E-02	0	0	8.3E-03	0	8.9E-03	0	0	8.0E-03	0	0	0	0	0	1.0	Converted from Lab results
	3/11/99	10:18	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	GC results
	3/11/99	11:36	3.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6E-01	GC results
	3/11/99	17:25	4.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8E-01	GC results
WEEK 8	3/18/99	11:27	1.3	7.9E-02	2.5E-01	0	0	2.9E-02	0	7.4E-03	0.0E+00	5.9E-03	9.7E-03	0	0	0	0	3.4E-02	1.7	Converted from Lab results
	3/18/99	11:27	5.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4E-01	GC results
	3/18/99	12:57	6.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6E-01	GC results
	3/18/99	16:56	6.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6E-01	GC results
	3/25/99	8:57	1.7	1.1E-01	3.8E-02	2.0E-02	0	2.0E-02	0	6.8E-03	0	4.9E-03	0	0	0	0	0	5.8E-02	2.0	Converted from Lab results
	3/25/99	8:57	3.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9E-01	GC results
WEEK 9	3/25/99																			
	3/25/99																			
	3/25/99																			
	3/25/99																			
WEEK 10	4/1/99	9:00	6.2	2.1E-01	5.7E-01	0	0	9.0E-02	0	0	0	0	1.1E-02	0	0	0	0	1.7E-01	7.3	Converted from Lab results
	4/1/99	9:00	5.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3E-01	GC results
	4/1/99	10:32	7.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8E-01	GC results
	4/1/99	14:32	4.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7E-01	GC results
	4/8/99	8:00	2.5	0	0	0	0	2.0E-02	0	0	0	0	0	0	0	0	0	9.9E-02	2.6	Converted from Lab results
	4/8/99	8:00	2.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E-01	GC results
WEEK 11	4/8/99	9:00	1.0	7.3E-02	2.4E-02	7.9E-03	0	0	2.3E-02	0	0	1.1E-02	0	0	0	0	0	3.6E-02	1.2	Converted from Lab results
	4/8/99	9:00	2.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-01	GC results
	4/8/99	10:33	2.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-01	GC results
	4/8/99	14:33	4.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6E-01	GC results
	4/15/99	10:07	9.7E-01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.7E-01	Converted from Lab results
	4/15/99	10:07	4.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3E-01	GC results
WEEK 12	4/15/99																			
	4/15/99																			
	4/15/99																			
	4/22/99																			
	4/22/99																			
WEEK 13	4/22/99	11:15	1.3	3.9E-01	4.4E-02	0	0	1.9E-02	0	0	0	3.1E-02	1.3E-02	0	0	0	0	0	1.8	Converted from Lab results
	4/22/99	11:15	4.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8E-01	GC results
	4/22/99	12:42	7.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6E-01	GC results
	4/22/99	16:44	7.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.9E-01	GC results
	4/29/99	9:04	5.5E-01	2.7E-02	0	0	0	0	1.2E-02	0	0	0	5.8E-03	0	0	0	0	0	6.0E-01	Converted from Lab results
	4/29/99	9:04	5.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.7E-01	GC results
WEEK 14	4/29/99	9:48	8.1E-01	4.6E-02	0	0	0	1.2E-02	2.6E-02	3.0E-02	0	5.7E-03	2.5E-02	0	1.4E-02	0	0	0	9.7E-01	Converted from Lab results
	4/29/99	9:48	1.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5E-01	GC results
	4/29/99	11:20	3.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1E-01	GC results
	4/29/99	15:14	3.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6E-01	GC results
WEEK 15	5/6/99																			
	5/6/99																			
	5/6/99																			
	5/13/99																			
	5/13/99																			

1 ppm = 1 mg/m³ (NIOSH, 1997)

PCE - TETRACHLOROETHENE 6.89
 CHL3M - CHLOROMETHANE 2.07
 MC - METHYLENE CHLORIDE 3.53
 CD - CARBON DISULFIDE 3.11
 DCE - 1,1-DICHLOROETHENE 4.03
 TCA - 1,1,1-TRICHLOROETHANE 5.55
 CT - CARBON TETRACHLORIDE 6.29
 2-TCA - 1,1,2-TRICHLOROETHANE 5.46

1 ppm = 1 mg/m³ (NIOSH, 1997)

TCE - TRICHLOROETHENE 5.4
 EB - ETHYLBENZENE 4.41
 RMZENE 3.19
 TOLUENE 3.77
 XYLENES 4.34
 BTXENE 4.26
 BM - BENZOMETHANE 3.89

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
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AIR QUALITY DATA - SI MANIFOLD (SMP 1) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the SI Manifold sample location.

Sample Date	Sample Time	PCB (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	DCA (ppm)	trans-DCE (ppm)	cis-DCE (ppm)	TCA (ppm)	TCF (ppm)	CT (ppm)	Bromine (ppm)	Toluene (ppm)	BX (ppm)	m,p-Xylene (ppm)	o-Xylene (ppm)	Styrene (ppm)	BM (ppm)	TOTAL VOC (ppm)	COMMENTS
WEEK 1	1/28/99	14:35	2.0E-03	0	1.1E-02	3.9E-03	0	0	0	1.6E-02	2.4E-03	0	1.0E-03	6.6E-03	8.6E-04	2.5E-03	9.7E-04	4.5E-04	8.2E-04	6.7E-02	Converted from Lab results
	1/28/99	14:35	1.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6E-01	QC results
	1/28/99	14:39	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	QC results
	1/28/99	15:23	2.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5E-01	QC results
	1/28/99	18:30	2.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-01	QC results
	1/28/99	21:39	2.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9E-01	QC results
	1/28/99	12:37	2.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E-01	QC results
	2/4/99	10:05	2.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3E-01	QC results
WEEK 3	2/4/99	13:34	4.9E-02	0	0	1.9E-03	2.1E-03	0	0	4.0E-03	0	0	0	4.8E-03	0	1.8E-03	0	0	0	6.4E-02	Converted from Lab results
	2/4/99	12:34	5.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2E-01	QC results
	2/4/99	12:36	2.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E-01	QC results
	2/4/99	13:36	2.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E-01	QC results
	2/4/99	14:38	3.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6E-01	QC results
	2/4/99	16:23	2.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3E-01	QC results
	2/4/99	20:26	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	QC results
	2/5/99	11:28	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	QC results
WEEK 3	2/11/99	9:23	4.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-01	QC results
	2/11/99	10:37	1.9E-03	0	0	1.8E-03	0	0	0	4.9E-04	0	0	7.8E-04	2.4E-03	2.7E-04	1.5E-03	4.4E-04	0	0	9.5E-03	Converted from Lab results
	2/11/99	10:37	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	QC results
	2/11/99	10:36	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	QC results
	2/11/99	11:36	5.0E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-03	QC results
	2/11/99	12:36	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	QC results
	2/11/99	14:38	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	QC results
	2/11/99	18:26	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	QC results
WEEK 4	2/13/99	9:36	1.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-01	QC results
	2/18/99	9:45	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	QC results
	2/18/99	10:26	3.6E-03	0	2.2E-03	2.9E-03	0	0	0	6.7E-04	3.7E-04	0	8.1E-04	5.3E-03	9.3E-04	2.5E-03	7.4E-04	4.9E-04	0	2.1E-02	Converted from Lab results
	2/18/99	10:26	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	QC results
	2/18/99	12:05	1.0E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-03	QC results
	2/18/99	18:04	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	QC results
	2/25/99	11:42	7.3E-03	0	4.0E-03	2.0E-03	0	0	0	1.5E-03	3.7E-04	2.0E-04	6.6E-04	4.8E-03	7.7E-04	2.2E-03	6.7E-04	5.3E-04	0	2.5E-02	Converted from Lab results
	2/25/99	11:42	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	QC results
WEEK 5	2/4/99	10:05	3.8E-03	0	3.4E-02	1.8E-03	0	0	0	2.0E-03	3.3E-04	2.2E-04	8.8E-04	5.0E-03	8.4E-04	2.5E-03	7.9E-04	5.2E-04	4.9E-04	5.3E-02	Converted from Lab results
	2/4/99	12:34	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	QC results
	2/4/99	12:34	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	QC results
	2/4/99	12:36	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	QC results
	2/4/99	13:36	2.2E-03	5.8E-03	0	0	0	-	-	6.7E-04	1.6E-04	0	0	2.6E-03	2.9E-04	1.1E-03	4.7E-04	0	3.9E-03	1.7E-02	Converted from Lab results
	2/4/99	14:28	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	QC results
	2/4/99	16:23	1.6E-02	0	0	0	1.1E-03	0	0	8.7E-03	5.4E-04	1.3E-04	0	4.0E-03	6.3E-04	2.2E-03	7.7E-04	0	0	3.4E-02	Converted from Lab results
	2/4/99	20:26	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	QC results
WEEK 6	2/5/99	11:28	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	QC results
	2/11/99	9:23	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	QC results
	2/11/99	10:37	9.6E-03	0	3.4E-03	2.3E-03	0	0	0	1.1E-03	4.8E-04	1.4E-04	6.9E-04	6.4E-03	1.3E-03	3.3E-03	8.8E-04	5.4E-04	0	3.0E-02	Converted from Lab results
	2/11/99	10:37	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	QC results
	2/11/99	10:56	9.9E-01	0	8.2E-03	4.5E-03	2.1E-03	7.6E-03	1.3E-02	4.8E-01	1.6E-02	4.1E-02	0	1.7E-03	2.9E-03	1.3E-03	3.9E-03	1.5E-03	0	1.1E-02	Converted from Lab results
	2/11/99	11:26	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	/	QC results

1 ppm = 1 mg/m³ (NIOSH, 1977)

PCB - TETRACHLOROBENZENE 6.89
CHLM - CHLOROMETHANE 1.07
MC - METHYLENE CHLORIDE 3.33
CD - CARBON DISULFIDE 3.11
DCE - 1,1-DICHLOROETHANE 4.43
TCA - 1,1,1-TRICHLOROETHANE 5.55
CT - CARBON TETRACHLORIDE 6.29

1 ppm = 1 mg/m³ (NIOSH, 1977)

TCF - TRICHLOROETHENE 5.4
EB - ETHYLBENZENE 4.41
BENZENE 3.19
TOLUENE 3.77
XYLENE 4.34
ETHYLENE 4.26
BM - BROMOMETHANE 3.89

1 ppm = 1 mg/m³ (NIOSH, 1977)

2-DCA - 1,1-DICHLOROETHANE 4.85
trans-DCE - 1,2-DICHLOROETHENE (trans) 3.97
cis-DCE - 1,2-DICHLOROETHENE (cis) 3.97

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - PRE-CARBON (SMP 7) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the pre-carbon sample location.

	Sample Date	Sample Time	PCB (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CB (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	Ch-DCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 1	1/28/99	14:15	3.0E+01	0	0	0	0	0	5.0E-01	0	0	0	0	0	0	0	0	0	3.1E+01	Lab Results
	1/28/99	14:15	5.6E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6E+01	Converted from GC results
	1/28/99	14:40	6.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3E+01	Converted from GC results
	1/28/99	15:10	5.9E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9E+01	Converted from GC results
	1/28/99	18:10	6.7E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7E+01	Converted from GC results
	1/28/99	22:05	5.9E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9E+01	Converted from GC results
	1/29/99	13:06	8.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8E+01	Converted from GC results
	2/4/99	10:10	9.0	0	0	0	0	0	1.9E-01	0	0	0	0	0	0	0	0	0	9.2	Lab Results
WEEK 2	2/4/99	10:10	2.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3E+01	Converted from GC results
	2/4/99	12:25	1.7E+01	0	0	1.0E-01	0	0	3.8E-01	0.0E+00	0	0	0	0	0	0	0	0	1.7E+01	Lab Results
	2/4/99	12:25	8.8E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8E+01	Converted from GC results
	2/4/99	12:50	8.5E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5E+01	Converted from GC results
	2/4/99	13:20	1.0E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E+02	Converted from GC results
	2/4/99	14:20	9.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.2E+01	Converted from GC results
	2/4/99	16:19	7.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1E+01	Converted from GC results
	2/4/99	20:18	8.5E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5E+01	Converted from GC results
WEEK 3	2/5/99	11:20	5.5E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5E+01	Converted from GC results
	2/11/99	9:25	1.0E+01	9.5E-01	7.2E-01	0	1.9E-01	0	3.2E-01	0	0	3.9E-01	0	0	0	0	0	0	1.3E+01	Lab Results
	2/11/99	9:25	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	Converted from GC results
	2/11/99	10:25	4.4	2.1	6.9E-01	0	4.9E-01	0	1.3E+01	0	0	4.2E-01	4.2E-02	0	0	0	0	0	2.1E+01	Lab Results
	2/11/99	10:25	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC results
	2/11/99	10:50	4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	Converted from GC results
	2/11/99	11:20	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	Converted from GC results
	2/11/99	12:20	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	Converted from GC results
WEEK 4	2/11/99	14:20	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	Converted from GC results
	2/11/99	18:20	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7	Converted from GC results
	2/12/99	9:20	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7	Converted from GC results
	2/18/99	9:35	4.4	0	3.2E-02	0	0	2.2E-02	0	0	0	3.8E-02	0	0	0	0	0	0	4.5	Lab Results
	2/18/99	9:35	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9	Converted from GC results
	2/18/99	10:25	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	Lab Results
	2/18/99	10:25	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Converted from GC results
	2/18/99	11:55	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC results
WEEK 5	2/18/99	17:55	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	2/25/99	11:30	6.8	0	6.0E-02	1.8E-02	0	8.6E-02	2.4E-02	0	0	1.3E-02	0	0	0	0	0	0	7.0	Lab Results
	2/25/99	11:30	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	Converted from GC results
	2/25/99	12:55	1.8E+01	0	5.20E-02	0	0	8.0E-02	0	0	0	0	0	0	0	0	0	0	1.8E+01	Lab Results
	2/25/99	12:55	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	Converted from GC results
	2/25/99	14:25	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6	Converted from GC results
	2/25/99	20:25	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	Converted from GC results
	3/4/99	9:01	6.8	7.6E-01	2.2	0	0	0	0	0	0	2.3E-01	2.8E-02	1.9E-01	6.2E-02	0	0	0	1.0E+01	Lab Results
WEEK 6	3/4/99	9:01	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC results
	3/4/99	10:09	3.7	0	2.9E-01	2.9E-02	0	6.3E-02	4.0E-03	0	0	0	4.3E-02	1.0E-02	3.9E-02	1.2E-02	0	0	4.2	Lab Results
	3/4/99	10:09	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	Converted from GC results
	3/4/99	11:39	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	Converted from GC results
	3/4/99	17:39	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6	Converted from GC results
	3/11/99	9:00	4.8	4.0E-01	2.2E-01	0	0	0	0	0	0	1.2E-01	0	0	0	0	0	0	5.5	Lab Results
	3/11/99	9:00	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC results

AIR QUALITY DATA - PRE-CARBON (SMP 7) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the pre-carbon sample location.

	Sample Date	Sample Time	PCB (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCE (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	Cis-DCE (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 7	3/11/99	10:00	2.9	0	0	5.7E-02	0	1.5E-02	2.0E-02	3.9E-02	0	0	1.2E-02	0	0	0	0	0	3.0	Lab Results
	3/11/99	10:00	5.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5E-01	Converted from GC results
	3/11/99	11:30	5.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5E-01	Converted from GC results
	3/11/99	17:29	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC results
WEEK 8	3/18/99	11:30	4.4	2.2E-01	8.8E-01	6.0E-02	0	0	0	0	0	0	0	0	0	0	0	2.0E-01	5.8	Lab Results
	3/18/99	11:20	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC results
	3/18/99	12:50	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	Converted from GC results
	3/18/99	16:50	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC results
	3/25/99	8:52	3.1	8.9E-02	0	1.2E-02	0	1.6E-02	6.5E-03	0	0	7.3E-03	0	0	0	0	0	6.1E-02	3.3	Lab Results
WEEK 9	3/25/99	8:52	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	3/25/99	9:56	9.0	2.7E-01	1.3E-01	4.3E-02	0	0	0	0	0	0	0	0	0	0	0	1.9E-01	9.6	Lab Results
	3/25/99	9:56	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	Converted from GC results
	3/25/99	11:26	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	Converted from GC results
	3/25/99	15:27	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	Converted from GC results
WEEK 10	4/1/99	8:55	1.3E+01	1.7E-01	5.1E-01	0	0	1.3E-01	0	0	0	0	2.1E-02	0	0	0	0	2.1E-01	1.4E+01	Lab Results
	4/1/99	8:55	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	Converted from GC results
	4/1/99	11:25	9.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6E-01	Converted from GC results
	4/1/99	14:25	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1	Converted from GC results
	4/8/99	8:07	7.3	0	1.1E-01	0	0	0	0	0	0	0	0	0	0	0	0	4.8E-01	7.9	Lab Results
WEEK 11	4/8/99	8:07	9.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-01	Converted from GC results
	4/8/99	8:55	5.5	0	8.0E-01	1.3E-01	0	0	0	0	0	2.3E-02	0	0	0	0	0	3.3E-01	6.8	Lab Results
	4/8/99	8:55	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	Converted from GC results
	4/8/99	10:25	5.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9E-01	Converted from GC results
	4/8/99	14:25	5.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9E-01	Converted from GC results
WEEK 12	4/15/99	10:00	3.2	0	4.6E-02	0	0	0	1.6E-02	0	0	0	9.3E-03	0	0	0	0	0	3.3	Lab Results
	4/15/99	10:00	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC results
	4/15/99	10:59	1.0E+01	0	9.0E-01	0	0	4.5E-02	0	0	0	0	2.8E-02	0	0	0	0	0	1.1E+01	Lab Results
	4/15/99	10:59	1.1E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+01	Converted from GC results
	4/15/99	12:28	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	Converted from GC results
WEEK 13	4/15/99	16:28	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	Converted from GC results
	4/22/99	10:24	4.0	3.7E-02	4.3E-02	0	0	0	0	0	0	0	0	0	0	0	0	0	4.1	Lab Results
	4/22/99	10:24	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	Converted from GC results
	4/22/99	11:06	3.0	6.0E-02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.1	Lab Results
	4/22/99	11:06	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	Converted from GC results
WEEK 14	4/29/99	12:35	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC results
	4/29/99	16:35	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	Converted from GC results
	4/29/99	8:56	1.6	2.5E-01	3.1E-02	0	0	0	0	0	0	1.7E-02	0	0	0	0	0	0	1.9	Lab Results
	4/29/99	8:56	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC results
	4/29/99	9:41	2.3	0	3.6E-02	0	0	0	3.1E-02	0	0	0	1.2E-02	0	0	0	0	0	2.4	Lab Results
WEEK 15	4/29/99	9:41	8.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3E-01	Converted from GC results
	4/29/99	11:12	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	Converted from GC results
	4/29/99	15:09	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	Converted from GC results
	5/6/99	10:59	9.1	0	0	0	0	0	0	0	0	0	2.1E-02	0	0	0	0	0	9.1	Lab Results
	5/6/99	10:59	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	Converted from GC results
WEEK 15	5/6/99	12:29	1.0E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E+01	Converted from GC results
	5/6/99	16:27	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9	Converted from GC results
	5/13/99	10:29	4.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.7E-02	4.4	Lab Results
	5/13/99	10:29	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5	Converted from GC results

Highlights: - Based on laboratory data, Pre-Carbon airstream VOC concentration experienced either a decreasing trend or remained relatively stable during weekly operation scenarios except for Week 4 operation.

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - MID-CARBON (SMP 8) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the mid-carbon sample location.

	Sample Date	Sample Time	PCE (mg/m ³)	CHLM (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	DCX (mg/m ³)	TCA (mg/m ³)	TCE (mg/m ³)	2-TCA (mg/m ³)	CF (mg/m ³)	DBCM (mg/m ³)	IDCP (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	EB (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	HM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 1	1/28/99	14:15	1.2	1.3E-01	1.4E-01	1.2E-01	0	0	2.3E-01	0	0	0	0	0	2.8E-02	0	0	0	0	0	1.8E-02	1.4	Lab Results
	1/28/99	14:15	8.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3E-01	Converted from GC results
	1/28/99	14:40	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	Converted from GC results
	1/28/99	15:10	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	Converted from GC results
	1/28/99	18:10	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	Converted from GC results
	1/28/99	22:05	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7	Converted from GC results
	1/29/99	13:06	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1	Converted from GC results
WEEK 2	2/4/99	10:10	5.5E-01	3.7E-02	8.5E-02	9.5E-03	0	0	2.8E-02	0	0	0	0	0	2.2E-03	0	0	0	0	0	0	7.1E-01	Lab Results
	2/4/99	10:10	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	Converted from GC results
	2/4/99	12:25	8.0E-01	0	5.3E-02	1.2E-02	0	0	2.6E-01	0	0	0	0	0	0	3.9E-03	0	0	0	0	0	9.0E-01	Lab Results
	2/4/99	12:25	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/4/99	12:50	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	Converted from GC results
	2/4/99	13:20	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	Converted from GC results
	2/4/99	14:20	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9	Converted from GC results
WEEK 3	2/4/99	16:19	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0	Converted from GC results
	2/4/99	20:18	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8	Converted from GC results
	2/5/99	11:20	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8	Converted from GC results
	2/11/99	9:25	8.5E-01	0	0	1.4E-02	0	1.5E-02	0	0	0	0	0	0	3.8E-03	5.0E-03	0	0	0	0	0	8.9E-01	Lab Results
	2/11/99	9:25	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
	2/11/99	10:25	8.0E-01	0	0	8.0E-03	0	1.8E-02	0	0	0	0	0	0	4.0E-03	0	0	0	0	0	0	8.3E-01	Lab Results
	2/11/99	10:25	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC results
WEEK 4	2/11/99	10:50	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC results
	2/11/99	11:20	7.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6E-01	Converted from GC results
	2/11/99	12:20	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC results
	2/11/99	14:20	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC results
	2/11/99	18:20	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	Converted from GC results
	2/12/99	9:20	6.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2E-01	Converted from GC results
	2/18/99	9:35	5.5E-01	0	3.5E-02	6.0E-03	1.2E-02	1.7E-02	6.5E-01	0	0	0	0	0	8.0E-03	0	0	0	0	0	0	1.3	Lab Results
WEEK 5	2/18/99	9:35	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
	2/18/99	10:25	5.0E-01	0	4.2E-02	1.3E-02	0	2.6E-02	0	0	0	0	0	0	6.5E-03	0	0	0	0	0	0	5.9E-01	Lab Results
	2/18/99	10:25	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC results
	2/18/99	11:55	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
	2/18/99	17:55	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted from GC results
	2/23/99	11:30	3.3E-01	0	9.1E-03	6.3E-03	0	2.1E-02	0	0	0	0	0	0	1.8E-02	2.4E-03	4.6E-03	1.3E-03	0	0	0	3.9E-01	Lab Results
	2/23/99	11:30	3.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2E-01	Converted from GC results
WEEK 6	2/23/99	12:35	4.0E-01	1.8E-02	5.8E-03	5.8E-03	0	1.1E-02	0	0	0	0	0	0	4.0E-03	9.8E-03	1.5E-03	3.6E-03	8.5E-04	0	0	4.6E-01	Lab Results
	2/23/99	12:55	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted GC results
	2/23/99	14:25	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted GC results
	2/23/99	20:25	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
	3/4/99	9:02	2.4E-01	1.9E-02	6.0E-03	0	0	5.2E-03	4.0E-04	0	0	0	0	0	5.1E-03	2.3E-03	3.1E-04	1.4E-03	7.5E-04	0	0	2.8E-01	Lab Results
	3/4/99	9:02	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	Converted GC results
	3/4/99	10:09	2.3E-01	8.2E-03	3.0E-03	8.5E-03	7.1E-04	9.5E-03	0	0	0	0	0	0	3.2E-03	4.4E-04	2.3E-03	1.1E-03	0	0	0	2.9E-01	Lab Results
WEEK 7	3/4/99	10:09	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted GC results
	3/4/99	11:39	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	Converted GC results
	3/4/99	17:40	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
	3/11/99	9:00	4.6E-01	8.8E-03	6.7E-03	8.2E-03	1.9E-03	3.3E-02	9.9E-04	2.2E-03	0	0	0	0	1.2E-03	3.3E-03	8.1E-04	2.5E-03	7.8E-04	0	3.4E-03	5.3E-01	Lab Results
	3/11/99	9:00	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results

AIR QUALITY DATA - MID-CARBON (SMP #) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the mid-carbon sample location.

	Sample Date	Sample Time	PCE (mg/m ³)	CHLOR (mg/m ³)	MC (mg/m ³)	CD (mg/m ³)	BCE (mg/m ³)	1CA (mg/m ³)	1CE (mg/m ³)	2-1CA (mg/m ³)	CP (mg/m ³)	DBCM (mg/m ³)	DDCP (mg/m ³)	CT (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	TH (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Styrene (mg/m ³)	BM (mg/m ³)	TOTAL VOC (mg/m ³)	COMMENTS
WEEK 7	3/1/99	10:00	4.6E-01	0	2.2E-02	6.2E-03	2.9E-03	4.2E-02	1.2E-03	0	0	0	0	0	1.5E-03	8.8E-03	8.0E-04	2.7E-03	7.9E-04	0	0	3.3E-01	Lab Results
	3/1/99	10:00	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted GC results
	3/1/99	11:31	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
	3/1/99	17:30	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted GC results
WEEK 8	3/18/99	11:21	3.3E-01	9.9E-03	6.2E-03	4.2E-03	0	3.4E-02	1.0E-03	1.4E-03	0	0	0	1.2E-03	0	1.9E-03	0	0	0	0	4.3E-03	4.3E-01	Lab Results
	3/18/99	11:21	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
	3/18/99	12:50	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted GC results
	3/18/99	16:50	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
WEEK 9	3/23/99	8:53	2.9E-01	9.5E-03	7.5E-02	5.8E-03	0	7.9E-03	4.6E-04	0	1.1E-03	0	0	0	1.0E-03	4.6E-03	1.1E-03	2.3E-03	7.0E-04	0	6.3E-03	4.1E-01	Lab Results
	3/23/99	8:53	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
	3/23/99	9:56	1.6E-01	1.0E-02	4.4E-03	7.1E-03	0	1.9E-02	0	0	0	0	0	0	7.3E-04	2.3E-03	0	1.8E-03	3.6E-04	0	6.6E-03	2.1E-01	Lab Results
	3/23/99	9:56	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted GC results
WEEK 10	3/23/99	11:26	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted GC results
	3/23/99	13:27	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted GC results
	4/1/99	8:53	3.9E-01	1.6E-02	6.8E-02	1.2E-02	0	2.0E-02	0	0	0	0	0	0	0	7.0E-03	0	2.3E-03	0	0	1.3E-02	3.3E-01	Lab Results
	4/1/99	8:55	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
WEEK 11	4/1/99	11:23	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted GC results
	4/1/99	14:23	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted GC results
	4/8/99	8:07	1.0	1.7E-02	2.3E-01	2.8E-02	0	3.3E-02	3.6E-03	0	0	2.6E-03	0	0	3.2E-03	3.1E-02	4.1E-03	7.4E-03	1.7E-03	1.5E-03	1.1E-02	1.4	Lab Results
	4/8/99	8:07	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted GC results
WEEK 12	4/8/99	8:53	4.6E-01	1.3E-02	1.9E-02	2.4E-02	0	2.6E-02	3.0E-03	0	0	0	0	0	1.3E-03	2.2E-02	0	4.0E-03	8.6E-04	6.3E-04	8.7E-03	6.0E-01	Lab Results
	4/8/99	8:55	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
	4/8/99	10:23	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted GC results
	4/8/99	14:23	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
WEEK 13	4/15/99	10:00	3.8E-01	0	4.3E-02	1.1E-02	0	1.4E-02	0	0	0	0	0	0	0	1.3E-02	1.0E-03	7.6E-04	0	0	0	4.6E-01	Lab Results
	4/15/99	10:00	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted GC results
	4/15/99	10:59	1.3E-01	0	2.0E-02	0	0	2.0E-02	0	0	0	0	4.7E-03	0	1.0E-03	1.2E-02	3.9E-04	1.3E-03	0	0	0	2.1E-01	Lab Results
	4/15/99	10:59	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	Converted GC results
WEEK 14	4/15/99	11:28	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted GC results
	4/15/99	16:28	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted GC results
	4/22/99	10:24	2.0E-01	5.2E-03	1.0E-02	3.4E-03	0	3.7E-02	0	0	0	0	0	0	0	4.9E-03	0	1.6E-03	0	0	4.8E-03	2.7E-01	Lab Results
	4/22/99	10:24	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted GC results
WEEK 15	4/22/99	11:07	2.9E-01	0	2.4E-02	3.8E-03	4.3E-03	3.3E-02	0	0	0	0	0	0	0	1.3E-02	0	1.3E-03	0	0	0	3.7E-01	Lab Results
	4/22/99	11:07	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted GC results
	4/22/99	12:36	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted GC results
	4/22/99	16:35	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted GC results
WEEK 16	4/29/99	8:57	9.7E-02	2.0E-03	4.3E-03	1.5E-03	0	7.8E-03	0	0	0	0	0	0	0	3.0E-03	0	5.6E-04	0	0	1.2E-01	2.4E-01	Lab Results
	4/29/99	8:57	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted GC results
	4/29/99	9:42	5.0E-02	5.5E-03	6.2E-03	1.9E-03	0	1.1E-02	0	0	0	0	0	0	4.2E-04	5.1E-03	0	1.2E-03	0	0	0	8.1E-02	Lab Results
	4/29/99	9:42	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted GC results
WEEK 17	4/29/99	11:12	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted GC results
	4/29/99	15:10	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted GC results
WEEK 18	5/6/99	10:59	2.5E-01	4.2E-03	7.7E-03	2.6E-03	0	3.2E-02	0	0	1.1E-03	0	0	0	0	1.3E-02	0	1.7E-03	0	0	0	3.1E-01	Lab Results
	5/6/99	10:59	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted GC results
	5/6/99	12:29	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted GC results
	5/6/99	16:28	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted GC results
WEEK 19	5/13/99	10:30	7.8E-02	2.6E-03	6.5E-03	3.7E-03	0	1.1E-02	0	0	0	0	0	0	6.4E-04	1.0E-02	0	1.4E-03	0	0	4.4E-03	1.2E-01	Lab Results
	5/13/99	10:30	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted GC results

AIR QUALITY DATA - POST-CARBON (SMP 2) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the post-carbon sample location

			PCB	CHLOR	MU	CD	DCE	trans-DCE	cis-DCE	1-DCA	2-PCA	CIS	TCA	TCF	CT	Benzene	Toluene	EB	m,p-Xylene	o-Xylene	Styrene	BA	TOTAL VOC	COMMENTS
	Sample Date	Sample Time	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)	(mg/m ³)		
WEEK 1	1/28/99	14:17	3.8E-02	1.0E-02	0	2.0E-02	1.8E-02	2.2E-02	2.0E-02	2.2E-03	7.4E-03	8.1E-01	2.8E-03	7.4E-02	0	2.1E-01	1.8E-02	3.4E-03	4.7E-03	0	0	1.0E-02	1.3E-00	Lab Results
	1/28/99	14:17	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted from GC results
	1/28/99	14:41	4.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8E-01	Converted from GC results
	1/28/99	15:11	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	Converted from GC results
	1/28/99	18:11	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Converted from GC results
	1/28/99	22:06	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Converted from GC results
	1/29/99	13:07	9.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-01	Converted from GC results
	2/4/99	10:11	0	3.7E-02	8.3E-02	1.7E-03	0	0	0	0	0	0	0	1.7E-02	0	4.6E-03	2.6E-03	0	0	0	0	0	1.5E-01	Lab Results
	2/4/99	10:11	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
WEEK 2	2/4/99	12:36	8.6E-03	0	0	1.5E-02	0	0	0	0	0	0	0	2.1E-02	0	1.7E-03	1.1E-02	0	6.5E-03	0	2.6E-03	0	6.6E-02	Lab Results
	2/4/99	12:26	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/4/99	12:51	6.9E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-03	Converted from GC results
	2/4/99	13:21	1.4E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-02	Converted from GC results
	2/4/99	14:21	1.4E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-02	Converted from GC results
	2/4/99	16:20	2.1E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-02	Converted from GC results
	2/4/99	20:19	6.9E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-03	Converted from GC results
	2/5/99	11:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/11/99	9:26	0	2.9E-02	0	8.6E-03	0	0	0	0	0	0	0	0	0	4.5E-03	7.2E-03	0	1.5E-03	0	0	0	5.3E-02	Lab Results
2/11/99	9:26	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results	
WEEK 3	2/11/99	10:26	3.5E-03	0	0	4.5E-03	0	0	0	0	0	0	0	3.7E-02	0	1.7E-03	3.5E-03	0	2.1E-03	0	0	0	5.2E-02	Lab Results
	2/11/99	10:26	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/11/99	10:31	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/11/99	11:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/11/99	12:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/11/99	14:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/11/99	18:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/12/99	9:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/18/99	9:36	0	1.5E-02	1.6E-02	8.1E-03	0	0	0	0	0	0	0	0	0	1.5E-03	3.5E-03	1.8E-03	2.1E-03	1.1E-03	0	1.2E-02	6.1E-02	Lab Results
2/18/99	9:36	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results	
WEEK 4	2/18/99	10:26	1.0E-03	0	1.5E-02	4.4E-03	0	0	0	0	0	0	0	0	0	1.5E-03	3.6E-03	0	2.8E-03	0	0	0	2.8E-02	Lab Results
	2/18/99	10:26	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
	2/18/99	11:56	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/18/99	17:56	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	2/25/99	11:31	2.6E-03	0	1.6E-02	6.1E-03	0	0	0	0	0	0	0	0	0	1.5E-03	3.1E-03	6.1E-04	2.0E-03	7.0E-04	5.2E-04	1.4E-03	3.4E-02	Lab Results
	2/25/99	11:31	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
WEEK 5	2/25/99	12:56	2.1E-02	0	1.6E-02	7.6E-03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0E-03	1.6E-02	4.5E-02	Lab Results
	2/25/99	12:56	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC results
	2/25/99	14:26	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted from GC results
	2/25/99	20:25	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	3/4/99	9:02	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.8E-01	Lab Results
	3/4/99	9:02	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
WEEK 6	3/4/99	10:10	3.0E-03	0	4.8E-02	7.2E-03	0	0	0	0	0	0	0	0	0	2.5E-03	0	2.2E-03	7.7E-03	3.2E-03	0	0	7.4E-02	Lab Results
	3/4/99	10:10	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC results
	3/4/99	11:40	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC results
	3/4/99	17:40	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	3/11/99	9:01	2.5E-03	0	8.7E-03	8.2E-03	0	0	0	0	0	0	0	0	0	0	3.6E-03	9.1E-04	2.5E-03	7.1E-04	0	0	2.7E-02	Lab Results
	3/11/99	9:01	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02

AIR QUALITY DATA - POST-CARBON (RMP 9) (mg/m³)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the post-carbon sample location.

	Sample Date	Sample Time	PCB	CHL	MC	CD	DCE	trans-DC	ch-DCE	2-DCA	1-PCA	CB	TCA	TCE	CT	Benzene	Toluene	EB	m,p-Xylene	o-Xylene	Styrene	BM	TOTAL VOC	COMMENTS
WEEK 7	3/1/99	10:00	2.2E-01	0	8.3E-02	6.3E-03	0	0	0	0	0	0	1.6E-03	0	0	1.2E-03	9.7E-03	1.3E-03	3.3E-03	1.1E-02	0	0	1.4E-01	Lab Results
	3/1/99	10:00	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	3/1/99	11:31	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC results
	3/1/99	17:30	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
WEEK 8	3/1/99	11:21	5.8E-03	1.0E-02	2.4E-02	4.3E-03	0	0	0	0	0	0	0	0	0	9.7E-04	2.9E-03	0	1.6E-03	3.5E-04	0	4.5E-03	3.4E-02	Lab Results
	3/1/99	11:21	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	3/1/99	12:51	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC results
	3/1/99	16:51	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC results
WEEK 9	3/23/99	8:53	8.4E-03	9.4E-03	6.4E-03	5.5E-03	0	0	0	0	0	0	0	0	0	7.5E-04	2.4E-03	0	5.7E-04	0	7.9E-04	6.8E-03	4.1E-02	Lab Results
	3/23/99	8:53	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	3/23/99	9:57	7.3E-03	8.1E-03	3.1E-03	3.9E-03	0	0	0	0	0	0	0	0	0	8.0E-04	2.1E-03	0	1.3E-03	0	1.2E-03	5.2E-03	3.3E-02	Lab Results
	3/23/99	9:57	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC results
WEEK 10	3/23/99	11:27	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	3/23/99	15:28	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	4/1/99	8:56	1.8E-02	0	5.1E-02	1.7E-02	0	0	0	0	0	0	2.2E-03	3.2E-03	0	2.8E-03	1.8E-02	0	1.7E-03	0	1.9E-03	1.6E-02	1.3E-01	Lab Results
	4/1/99	8:56	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
WEEK 11	4/1/99	10:26	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC results
	4/1/99	14:26	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
	4/8/99	8:08	3.6E-02	3.5E-02	4.8E-02	1.5E-02	0	0	0	0	0	0	1.5E-02	0	0	7.3E-03	2.9E-02	3.9E-03	8.9E-03	2.1E-03	4.9E-02	1.3E-02	2.6E-01	Lab Results
	4/8/99	8:08	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
WEEK 12	4/8/99	8:56	1.5E-02	1.4E-02	0	1.9E-02	0	0	0	0	0	0	0	0	0	2.1E-03	2.7E-02	0	5.9E-03	1.7E-03	5.3E-03	1.1E-02	1.0E-01	Lab Results
	4/8/99	8:56	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC results
	4/8/99	10:26	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	4/8/99	14:27	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
WEEK 13	4/13/99	10:01	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	Lab Results
	4/13/99	10:01	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	Converted from GC results
	4/13/99	10:59	3.8E-03	0	8.2E-02	1.4E-02	0	0	0	0	0	0	0	0	0	3.5E-03	1.2E-02	0	1.3E-03	0	0	0	1.2E-01	Lab Results
	4/13/99	10:59	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC results
WEEK 14	4/13/99	12:29	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC results
	4/13/99	16:29	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	Converted from GC results
	4/22/99	10:25	2.4E-02	0	9.5E-03	7.0E-03	0	0	0	0	0	0	0	0	0	5.3E-04	8.7E-03	0	2.7E-03	0	0	0	5.2E-02	Lab Results
	4/22/99	10:25	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
WEEK 15	4/22/99	11:07	2.6E-03	3.6E-03	8.1E-03	5.1E-03	0	0	0	0	0	0	0	0	0	3.3E-04	1.3E-02	9.8E-04	2.4E-03	8.0E-04	1.0E-03	1.2E-03	4.1E-02	Lab Results
	4/22/99	11:07	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC results
	4/22/99	12:36	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	4/22/99	16:36	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
WEEK 16	4/29/99	8:57	8.6E-03	1.5E-03	2.2E-03	1.1E-03	0	0	0	0	0	0	0	0	0	4.1E-03	0	0	0	0	0	8.4E-02	1.0E-01	Lab Results
	4/29/99	8:57	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	4/29/99	9:42	4.0E-03	3.9E-03	4.3E-03	1.2E-03	0	0	0	0	0	0	0	0	0	3.0E-04	5.1E-03	0	6.7E-04	0	0	0	1.9E-02	Lab Results
	4/29/99	9:42	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
WEEK 17	4/29/99	11:13	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	4/29/99	13:10	6.9E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E-02	Converted from GC results
	5/6/99	11:00	2.2E-02	1.3E-02	4.3E-02	4.2E-03	0	0	0	0	0	0	0	0	0	1.9E-03	2.2E-02	1.5E-03	3.7E-03	0	4.3E-04	0	1.1E-01	Lab Results
	5/6/99	11:00	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
WEEK 18	5/6/99	12:30	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	Converted from GC results
	5/6/99	16:28	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Converted from GC results
	5/13/99	10:30	0	5.1E-03	4.0E-03	5.9E-03	0	0	0	2.6E-03	0	0	0	0	0	0	1.2E-02	0	1.4E-03	0	3.6E-03	3.7E-03	3.8E-02	Lab Results
	5/13/99	10:30	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	Converted from GC results

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - SUMMARY OF LABORATORY TOTAL VOCs and PCE USING THE PORTABLE GC

Table Purpose: To present a summary of laboratory data and field screening results for all sample locations and evaluate contaminant breakthrough and adsorption to carbon in Unit 1.

	Date	Sample Event	Pre-Carbon (SMP 7)		Mid-Carbon (SMP 8)		% of Pre-Carbon VOC at Mid-Carbon	Post-Carbon (SMP 9)		Manifold A (SMP 3)		Manifold B (SMP 4)		Manifold C (SMP 2)		SI Manifold (SMP 1)	
			LAB	GC	LAB	GC		LAB	GC	LAB	GC	LAB	GC	LAB	GC	LAB	GC
WEEK 1	1/28/99	5 minute	3.1E+01	5.6E+01	1.4	8.3E-01	4.6%	1.3E+00	3.4E-01			6.5E+01	1.6E+01	4.6E+01	1.1E+02	3.5E-01	1.1
	1/28/99	30 minute		6.3E+01		1.9			4.8E-01				6.7E+01		1.2E+02		1.4
	1/28/99	1 hour		5.9E+01		2.3			4.1E-01				7.2E+01		2.2E+02		1.7
	1/28/99	4 hour		6.7E+01		3.3			1.5				9.4E+01		2.1E+02		1.4
	1/28/99	8 hour		5.9E+01		3.7			1.2				9.8E+01		1.4E+02		2.0
	1/29/99	24 hour		8.8E+01		3.1			9.0E-01				9.8E+01		2.4E+02		1.8
	2/4/99	7 day	9.2	2.3E+01	7.1E-01	6.9	7.7%	1.5E-01	0				2.9E+01		6.4E+01		1.7
WEEK 2	2/4/99	5 minute	1.7E+01	8.8E+01	9.0E-01	0	5.1%	6.6E-02	0	7.0E+01	1.8E+02	9.2	2.8E+01			4.0E-01	3.6
	2/4/99	30 minute		8.5E+01		3.8			6.9E-03				6.1E+01				1.8
	2/4/99	1 hour		1.0E+02		3.6			1.4E-02				3.0E+01				1.5
	2/4/99	2 hour		9.2E+01		3.9			1.4E-02				2.6E+01				2.5
	2/4/99	4 hour		7.1E+01		4.0			2.1E-02				1.9E+01				1.6
	2/4/99	8 hour		8.5E+01		2.8			6.9E-03				4.3E+01				2.1
	2/5/99	24 hour		5.5E+01		2.8			0				2.7E+01				1.4
WEEK 3	2/11/99	7 day	1.3E+01	2.3	8.9E-01	0.2	7.1%	5.3E-02	0		2.1		2.3				2.8
	2/11/99	5 minute	2.1E+01	2.1	8.3E-01	1.2	3.9%	5.2E-02	0	6.2	6.2E-01			2.4E+01	1.0E+01	4.2E-02	6.2E-01
	2/11/99	30 minute		4.1		6.2E-01			0		1.9				6.9		6.9E-02
	2/11/99	1 hour		2.9		7.6E-01			0		2.7				1.2E+01		3.4E-01
	2/11/99	2 hour		3.3		6.2E-01			0		2.7				1.2E+01		2.8E-01
	2/11/99	4 hour		3.3		6.2E-01			0		2.1				1.1E+01		0
	2/11/99	8 hour		3.7		4.1E-01			0		2.3				9.6		6.9E-02
WEEK 4	2/12/99	24 hour		3.7		6.2E-01			0		6.0				2.2E+01		6.9E-01
	2/18/99	7 day	4.5	3.9	1.278	2.1E-01	28.5%	6.1E-02	0		6.2				6.9		6.9E-02
	2/18/99	30 minute	2.0	1.5	5.9E-01	2.8E-01	29.4%	2.8E-02	2.1E-01			3.4	1.2	3.5	2.9	9.0E-02	2.1E-01
	2/18/99	2 hour		1.2		2.1E-01			1.4E-01				1.0		6.9E-01		6.9E-02
	2/18/99	8 hour		1.4		3.4E-01			0				9.0E-01		4.7		1.2E-01
	2/25/99	7 day	7.0	1.7	3.9E-01	3.2E-01	5.6%	3.4E-02	0			8.2	1.5	1.8E+01	1.7	1.2E-01	2.1E-01
	2/25/99	30 minute	1.8E+01	9.6	4.6E-01	2.8E-01	3%	6.3E-02	1.4E-01	5.6E+01	1.1E+01	8.2	4.3			2.1E-01	2.1E-01
WEEK 5	2/25/99	2 hour		7.6		2.8E-01			3.4E-01		9.5		3.9				2.8E-01
	2/25/99	8 hour		6.4		2.1E-01			6.9E-02		8.3		2.8				2.8E-01
	3/4/99	7 day	1.0E+01	1.9	2.8E-01	4.1E-01	3%	/	2.8E-01	2.2E+01	5.6	2.7	0			6.5E-02	6.9E-02
	3/4/99	30 minute	4.2	1.8	2.9E-01	2.8E-01	7%	7.4E-02	1.4E-01	2.3	1.4			1.5E+01	4.1	1.9E-01	2.1E-01
	3/4/99	2 hour		2.7		4.1E-01			1.4E-01		8.3E-01				4.1		2.1E-01
	3/4/99	8 hour		2.6		2.1E-01			0		1.0				/		6.9E-02
	3/11/99	7 day	5.5	6.2E-01	5.3E-01	2.1E-01	10%	2.7E-02	6.9E-02	6.2	3.7			1.3E+01	7.1	1.5E-01	6.9E-02

AIR QUALITY DATA - SUMMARY OF LABORATORY TOTAL VOCs and PCE USING THE PORTABLE GC

Table Purpose: To present a summary of laboratory data and field screening results for all sample locations and evaluate contaminant breakthrough and adsorption to carbon in Unit 1.

	Date	Sample Event	Pre-Carbon (SMP 7)		Mid-Carbon (SMP 8)		% of Pre-Carbon VOC at Mid-Carbon	Post-Carbon (SMP 9)		Manifold A (SMP 3)		Manifold B (SMP 4)		Manifold C (SMP 2)		SI Manifold (SMP 1)	
			LAB	GC	LAB	GC		LAB	GC	LAB	GC	LAB	GC	LAB	GC	LAB	GC
WEEK 7	3/11/99	30 minute	3.0	5.5E-01	5.5E-01	3.4E-01	18%	1.4E-01	6.9E-02			4.5	9.0E-01	6.8	9.3E-01	9.3	7
	3/11/99	2 hour		5.5E-01		2.1E-01			2.8E-01			1.5			2.5		
	3/11/99	8 hour		6.2E-01		1.4E-01			6.9E-02			1.8			3.3		
WEEK 8	3/18/99	30 minute	5.8	1.2	4.3E-01	2.1E-01	8%	5.4E-02	6.9E-02			4.6	4.5	1.0E+01	3.7		
	3/18/99	2 hour		3.0		3.4E-01			2.8E-01			3.4			4.5		
	3/18/99	6 hour		1.9		2.1E-01			1.4E-01			3.7			4.5		
	3/25/99	7 day	3.3	1.4	4.1E-01	2.1E-01	12%	4.1E-02	0			3.9	1.2	1.3E+01	2.7		
WEEK 9	3/25/99	30 minute	9.6	2.0	2.1E-01	1.4E-01	2%	3.3E-02	2.8E-01	2.6E+01	5.1	4.9	1.2				
	3/25/99	2 hour		1.4		6.9E-02			0		5.7		1.6				
	3/25/99	6 hour		1.7		6.9E-02			6.9E-02		4.5		1.0				
WEEK 10	4/1/99	30 minute	1.4E+01	2.7	5.3E-01	2.1E-01	4%	1.3E-01	6.9E-02	6.3	5.5E-01			4.7E+01	3.8		
	4/1/99	2 hour		9.6E-01		1.4E-01			2.8E-01		9.0E-01				5.4		
	4/1/99	6 hour		3.1		2.8E-01			2.1E-01		6.9E-01				3.3		
	4/8/99	7 day	7.9	9.0E-01	1.4	6.9E-02	17%	2.6E-01	0	8.5	9.2E-01			1.7E+01	1.5		
WEEK 11	4/8/99	30 minute	6.8	1.8	6.0E-01	2.1E-01	9%	1.0E-01	1.4E-01			7.4	9.0E-01	7.8	1.4		
	4/8/99	2 hour		5.9E-01		2.8E-01			6.9E-02			2.1			1.4		
	4/8/99	6 hour		5.9E-01		2.1E-01			6.9E-02			1.6			3.2		
	4/15/99	7 day	3.3	2.1	4.6E-01	1.4E-01	14%	/	2.1E-01			2.7	1.8	6.7	3.0		
WEEK 12	4/15/99	30 minute	1.1E+01	1.1E+01	2.1E-01	4.1E-01	2%	1.2E-01	1.4E-01	3.0E+01	6.8	7.0	1.9				
	4/15/99	2 hour		2.3		2.8E-01			2.8E-01		4.8		1.7				
	4/15/99	6 hour		3.3		1.4E-01			3.4E-01		7.8		1.3				
	4/22/99	7 day	4.1	2.0	2.7E-01	3.4E-01	7%	5.2E-02	0	1.1E+01	5.0	2.5	8.3E-01				
WEEK 13	4/22/99	30 minute	3.1	2.0	3.7E-01	6.9E-02	12%	4.1E-02	1.4E-01	4.4E-01	6.9E-01			1.0E+01	3.3		
	4/22/99	2 hour		1.9		2.1E-01			6.9E-02		1.2				5.2		
	4/22/99	6 hour		2.1		6.9E-02			1.0E-01		1.9				5.4		
	4/29/99	7 day	1.9	1.9	2.4E-01	6.9E-02	12%	1.0E-01	0	2.4	1.9			3.9	3.9		
WEEK 14	4/29/99	30 minute	2.4	8.3E-01	8.1E-02	1.4E-01	3%	1.9E-02	6.9E-02			6.9	1.4	6.2	1.0		
	4/29/99	2 hour		1.0		2.8E-01			6.9E-02			1.4			2.1		
	4/29/99	6 hour		1.1		1.4E-01			6.9E-02			1.3			2.5		
WEEK 15	5/6/99	30 minute	9.1	3.4	3.1E-01	0	3%	1.1E-01	0	2.3E+01	9.4	3.6	1.4				
	5/6/99	2 hour		1.0E+01		2.8E-01			2.8E-01		1.6E+01		7.6E-01				
	5/6/99	6 hour		3.9		1.4E-01			0		8.1		1.7				
	5/13/99	7 day	4.4	3.5	1.2E-01	1.4E-01	3%	3.8E-02	1.4E-01	1.1E+01	1.1E+01	1.5	1.6				

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - PRE-CARBON (RMF 7) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the pre-carbon sample location.

Sample Date	Sample Time	PCB (ppm)	CHLOR (ppm)	BAC (ppm)	CD (ppm)	DCB (ppm)	TCA (ppm)	TCB (ppm)	Ch-DCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m,p-Xylene (ppm)	o-Xylene (ppm)	Styrene (ppm)	MM (ppm)	TOTAL VOC (ppm)	COMMENTS
WEEK 1	1/28/99	14:15	4.4	0	0	0	0	9.3E-02	0	0	0	0	0	0	0	0	0	4.4	Converted from Lab results
	1/28/99	14:15	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2	GC Results
	1/28/99	14:40	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.2	GC Results
	1/28/99	15:10	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	GC Results
	1/28/99	18:10	9.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	GC Results
	1/28/99	22:05	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	GC Results
	1/28/99	13:06	1.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E+01	GC Results
	2/4/99	10:10	1.3	0	0	0	0	1.3E-02	0	0	0	0	0	0	0	0	0	1.3	Converted from Lab results
WEEK 2	2/4/99	10:10	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	GC Results
	2/4/99	12:25	2.5	0	0	3.2E-02	0	0	0	0	0	0	0	0	0	0	0	2.6	Converted from Lab results
	2/4/99	12:25	1.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E+01	GC Results
	2/4/99	12:50	1.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E+01	GC Results
	2/4/99	13:20	1.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E+01	GC Results
	2/4/99	14:20	1.3E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E+01	GC Results
	2/4/99	16:19	1.0E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E+01	GC Results
	2/4/99	20:18	1.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E+01	GC Results
WEEK 3	2/5/99	11:20	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1	GC Results
	2/11/99	9:25	1.5	4.6E-01	2.0E-01	0	4.7E-02	0	0	0	1.2E-01	0	0	0	0	0	0	2.3	Converted from Lab results
	2/11/99	9:25	3.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3E-01	GC Results
	2/11/99	10:25	6.4E-01	1.01	2.0E-01	0	1.2E-01	0	0	0	1.3E-01	1.1E-02	0	0	0	0	0	4.3	Converted from Lab results
	2/11/99	10:25	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	GC Results
	2/11/99	10:50	6.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0E-01	GC Results
	2/11/99	11:20	4.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2E-01	GC Results
	2/11/99	12:20	4.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8E-01	GC Results
WEEK 4	2/11/99	14:20	4.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8E-01	GC Results
	2/11/99	18:20	5.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4E-01	GC Results
	2/12/99	9:20	5.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4E-01	GC Results
	2/18/99	9:35	6.4E-01	0	9.1E-03	0	0	4.0E-03	0	0	0	0	0	0	0	0	0	6.4E-01	Converted from Lab results
	2/18/99	9:35	5.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6E-01	GC Results
	2/18/99	10:25	2.9E-01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.9E-01	Converted from Lab results
	2/18/99	10:25	2.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E-01	GC Results
	2/18/99	11:55	1.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8E-01	GC Results
WEEK 5	2/18/99	17:55	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	GC Results
	2/23/99	11:30	9.9E-01	0	1.7E-02	5.8E-03	0	1.3E-02	4.4E-03	0	0	4.1E-03	0	0	0	0	0	1.0	Converted from Lab results
	2/23/99	11:30	2.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4E-01	GC Results
	2/23/99	12:55	2.6	0	1.5E-02	0	0	1.4E-02	0	0	0	0	0	0	0	0	0	2.6	Converted from Lab results
	2/23/99	12:55	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	GC results
	2/23/99	14:25	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	GC results
	2/23/99	20:25	9.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3E-01	GC results
	3/4/99	9:01	9.9E-01	3.7E-01	6.2E-01	0	0	0	0	0	6.0E-02	6.4E-03	4.3E-02	1.4E-02	0	0	0	2.1	Converted from Lab results
WEEK 6	3/4/99	9:01	2.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7E-01	GC results
	3/4/99	10:09	3.4E-01	0	8.2E-02	9.3E-03	0	1.1E-02	7.4E-04	0	0	1.1E-02	2.3E-03	9.0E-03	2.8E-03	0	0	6.7E-01	Converted from Lab results
	3/4/99	10:09	2.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E-01	GC results
	3/4/99	11:39	3.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9E-01	GC results
	3/4/99	17:39	3.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8E-01	GC results
	3/11/99	9:00	7.0E-01	1.9E-01	6.2E-02	0	0	0	0	0	3.6E-02	0	0	0	0	0	0	9.9E-01	Converted from Lab results
	3/11/99	9:00	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC results

AIR QUALITY DATA - PRE-CARBON (RMF 7) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the pre-carbon sample location.

	Sample Date	Sample Time	PCB (ppm)	CHL-M (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	TCA (ppm)	TCE (ppm)	Ch-DCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	m,p-Xylene (ppm)	o-Xylene (ppm)	Styrene (ppm)	MM (ppm)	OTAL VO (ppm)	COMMENTS
WEEK 7	3/11/99	10:00	4.2E-01	0	0	1.8E-01	0	2.7E-03	3.7E-03	9.8E-03	0	0	3.2E-03	0	0	0	0	0	4.6E-01	Converted from Lab results
	3/11/99	10:00	8.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.0E-02	GC results
	3/11/99	11:30	8.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.0E-02	GC results
	3/11/99	17:29	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC results
WEEK 8	3/18/99	11:20	6.4E-01	1.1E-01	2.5E-01	1.9E-02	0	0	0	0	0	0	0	0	0	0	0	3.2E-02	1.1	Converted from Lab results
	3/18/99	11:20	1.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8E-01	GC results
	3/18/99	12:50	4.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3E-01	GC results
	3/18/99	16:30	2.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7E-01	GC results
	3/25/99	8:32	4.3E-01	4.3E-02	0	3.9E-03	0	2.9E-03	1.2E-03	0	0	2.3E-03	0	0	0	0	0	1.6E-02	3.2E-01	Converted from Lab results
	3/25/99	8:32	2.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-01	GC results
WEEK 9	3/25/99	9:36	1.3	1.3E-01	3.5E-02	1.4E-02	0	0	0	0	0	0	0	0	0	0	0	4.8E-02	1.3	Converted from Lab results
	3/25/99	9:36	2.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9E-01	GC results
	3/25/99	11:26	2.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1E-01	GC results
	3/25/99	15:27	2.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5E-01	GC results
WEEK 10	4/1/99	8:33	1.9	8.4E-02	1.4E-01	0	0	2.4E-02	0	0	0	0	5.7E-03	0	0	0	0	3.5E-02	2.2	Converted from Lab results
	4/1/99	8:33	3.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9E-01	GC results
	4/1/99	11:23	1.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4E-01	GC results
	4/1/99	14:23	4.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6E-01	GC results
	4/8/99	8:07	1.1	0	3.2E-02	0	0	0	0	0	0	0	0	0	0	0	0	1.2E-01	1.2	Converted from Lab results
	4/8/99	8:07	1.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC results
WEEK 11	4/8/99	8:33	8.0E-01	0	2.3E-01	4.7E-02	0	0	0	0	0	7.3E-03	0	0	0	0	0	8.4E-02	1.2	Converted from Lab results
	4/8/99	8:33	2.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6E-01	GC results
	4/8/99	10:23	8.6E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6E-02	GC results
	4/8/99	14:23	8.6E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6E-02	GC results
	4/15/99	10:00	4.6E-01	0	1.3E-02	0	0	0	3.0E-03	0	0	0	2.3E-03	0	0	0	0	0	4.8E-01	Converted from Lab results
	4/15/99	10:00	3.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-01	GC results
WEEK 12	4/15/99	10:59	1.3	0	2.5E-01	0	0	8.1E-03	0	0	0	0	7.3E-03	0	0	0	0	0	1.7	Converted from Lab results
	4/15/99	10:59	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3	GC results
	4/15/99	12:28	3.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3E-01	GC results
	4/15/99	16:28	4.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8E-01	GC results
	4/22/99	10:34	5.8E-01	1.8E-02	1.2E-02	0	0	0	0	0	0	0	0	0	0	0	0	0	6.1E-01	Converted from Lab results
	4/22/99	10:34	2.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9E-01	GC results
WEEK 13	4/22/99	11:06	4.4E-01	2.9E-02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.6E-01	Converted from Lab results
	4/22/99	11:06	2.9E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9E-01	GC results
	4/22/99	12:33	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	GC results
	4/22/99	16:33	3.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1E-01	GC results
	4/29/99	8:36	2.3E-01	1.2E-01	8.7E-03	0	0	0	0	0	0	5.4E-03	0	0	0	0	0	0	3.7E-01	Converted from Lab results
	4/29/99	8:36	2.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7E-01	GC results
WEEK 14	4/29/99	9:41	3.3E-01	0	1.0E-02	0	0	0	5.8E-03	0	0	0	3.1E-03	0	0	0	0	0	3.3E-01	Converted from Lab results
	4/29/99	9:41	1.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E-01	GC results
	4/29/99	11:12	1.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC results
	4/29/99	15:09	1.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6E-01	GC results
WEEK 15	5/6/99	10:39	1.3	0	0	0	0	0	0	0	0	0	5.6E-03	0	0	0	0	0	1.3	Converted from Lab results
	5/6/99	10:39	5.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-01	GC results
	5/6/99	12:29	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	GC results
	5/6/99	16:27	5.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6E-01	GC results
	5/12/99	10:29	6.2E-01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5E-02	6.4E-01	Converted from Lab results
	5/13/99	10:29	3.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1E-01	GC results

1 ppm = 1 mg/m³ (DOSS, 1997)

PCB - TETRACHLOROBIPHENYL
CHL-M - CHLOROMETHANE
MC - METHYLENE CHLORIDE
CD - CARBON DISULFIDE
DCE - 1,1-DICHLOROETHYLENE
TCA - 1,1,1-TRICHLOROETHANE

6.89
2.07
3.53
3.11
4.03
5.55

1 ppm = 1 mg/m³ (DOSS, 1997)

TCE - TRICHLOROETHYLENE
Ch-DCE - 1,2-DICHLOROETHYLENE (cis)
EB - ETHYLBENZENE
BENZENE
TOLUENE
XYLENES

5.4
3.97
4.41
3.19
3.77
4.34

AIR QUALITY DATA - PRE-CARBON (EMP 7) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the pre-carbon sample location.

CT - CARBON TETRACHLORIDE	6.29	STYRENE	4.26
		BM - BROMOMETHANE	1.89

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - MID-CARBON (SMP 9) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the mid-carbon sample location.

			PCE	CHLM	MC	CD	DCE	TCA	TCE	2-TCA	CF	DNCH	DCP	CT	Benzene	Toluene	EB	p-Xylen	m-Xylen	Styrene	BMI	TOTAL VOC	COMMENTS
	Sample Date	Sample Time	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
WEEK 1	1/28/99	14:15	1.7E-01	6.3E-02	4.0E-03	3.9E-03	0	0	4.3E-03	0	0	0	0	0	8.8E-03	0	0	0	0	0	4.6E-03	2.6E-01	Converted from Lab results
	1/28/99	14:15	1.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2E-01	GC Results
	1/28/99	14:40	2.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8E-01	GC Results
	1/28/99	15:10	3.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4E-01	GC Results
	1/28/99	18:10	4.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8E-01	GC Results
	1/28/99	22:05	5.4E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4E-01	GC Results
	1/29/99	13:06	4.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5E-01	GC Results
	2/4/99	10:10	8.0E-02	1.8E-02	2.4E-02	3.1E-03	0	0	5.2E-03	0	0	0	0	0	4.9E-04	0	0	0	0	0	0	1.3E-01	Converted from Lab results
	2/4/99	10:10	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	GC Results
WEEK 2	2/4/99	12:25	1.2E-01	0	1.6E-02	3.9E-03	0	0	4.8E-03	0	0	0	0	0	0	1.0E-03	0	0	0	0	0	1.4E-01	Converted from Lab results
	2/4/99	12:25	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC Results
	2/4/99	12:50	5.5E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5E-01	GC Results
	2/4/99	13:20	5.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2E-01	GC Results
	2/4/99	14:20	5.6E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6E-01	GC Results
	2/4/99	16:19	5.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8E-01	GC Results
	2/4/99	20:18	4.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1E-01	GC Results
	2/5/99	11:20	4.0E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-01	GC Results
	2/11/99	9:25	1.2E-01	0	0	4.5E-03	0	2.7E-03	0	0	0	0	0	0	1.2E-03	1.3E-03	0	0	0	0	0	1.3E-01	Converted from Lab results
2/11/99	9:25	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC Results	
WEEK 3	2/11/99	10:25	1.2E-01	0	0	2.6E-03	0	3.2E-03	0	0	0	0	0	0	1.3E-03	0	0	0	0	0	0	1.2E-01	Converted from Lab results
	2/11/99	10:25	1.8E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8E-01	GC Results
	2/11/99	10:50	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
	2/11/99	11:20	1.1E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E-01	GC Results
	2/11/99	12:20	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
	2/11/99	14:20	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
	2/11/99	18:20	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC Results
	2/12/99	9:20	9.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0E-02	GC Results
	2/18/99	9:35	8.0E-02	0	9.9E-03	1.9E-03	3.0E-03	3.1E-03	1.2E-01	0	0	0	0	0	2.5E-03	0	0	0	0	0	0	2.2E-01	Converted from Lab results
2/18/99	9:35	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC Results	
WEEK 4	2/18/99	10:25	7.3E-02	0	1.2E-02	4.2E-03	0	4.7E-03	0	0	0	0	0	0	0	1.7E-03	0	0	0	0	0	9.5E-02	Converted from Lab results
	2/18/99	10:25	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC Results
	2/18/99	11:55	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC Results
	2/18/99	17:55	5.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-02	GC Results
	2/25/99	11:30	4.8E-02	0	2.6E-03	2.0E-03	0	3.8E-03	0	0	0	0	0	0	0	4.8E-03	5.4E-04	1.1E-03	3.0E-04	0	0	6.3E-02	Converted from Lab results
	2/25/99	11:30	4.7E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7E-02	GC Results
WEEK 5	2/25/99	12:55	5.8E-02	8.5E-03	1.6E-03	1.8E-03	0	1.9E-03	0	0	0	0	0	0	1.3E-03	2.6E-03	3.4E-04	8.3E-04	2.0E-04	0	0	7.7E-02	Converted Lab results
	2/25/99	12:55	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	2/25/99	14:25	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	2/25/99	20:25	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
	3/4/99	9:02	3.5E-02	9.2E-03	1.7E-03	0	0	9.4E-04	7.4E-05	0	0	0	0	0	1.6E-03	6.1E-04	7.0E-05	3.2E-04	1.7E-04	0	0	4.9E-02	Converted Lab results
	3/4/99	9:02	6.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0E-02	GC results
WEEK 6	3/4/99	10:09	3.6E-02	4.0E-03	1.4E-03	2.7E-03	1.7E-04	1.7E-03	0	0	0	0	0	0	0	8.5E-04	1.0E-04	5.3E-04	2.6E-04	0	0	4.8E-02	Converted Lab results
	3/4/99	10:09	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	3/4/99	11:39	6.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0E-02	GC results
	3/4/99	17:40	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
	3/11/99	9:00	6.7E-02	4.3E-03	1.9E-03	2.6E-03	4.7E-04	5.9E-03	1.8E-04	4.0E-04	0	0	0	0	3.8E-04	8.8E-04	1.8E-04	5.9E-04	1.8E-04	0	0	8.6E-02	Converted Lab results
	3/11/99	9:00	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results

AIR QUALITY DATA - MID-CARBON (IMP #) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the mid-carbon sample location.

Sample Date	Sample Time	PCB	CHLM	MC	CD	DCE	TCA	TCE	1,2-TCA	CF	DBCM	IDCP	CT	Benzene	Toluene	EB	4p-Xylene	m-Xylene	Styrene	BM	OTAL VO	COMMENTS
WEEK 7	3/11/99	10:00	6.7E-02	0	6.2E-03	2.0E-03	7.2E-04	7.6E-03	2.2E-04	0	0	0	0	4.7E-04	2.3E-03	1.8E-04	6.2E-04	1.8E-04	0	0	8.7E-02	Converted Lab results
	3/11/99	10:00	5.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-02	GC results
	3/11/99	11:31	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
	3/11/99	17:30	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
WEEK 8	3/18/99	11:21	5.1E-02	4.8E-03	1.8E-03	1.4E-03	0	9.7E-03	1.9E-04	2.6E-04	0	0	0	1.9E-04	0	0	0	0	0	0	7.1E-02	Converted Lab results
	3/18/99	11:21	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
	3/18/99	12:50	5.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-02	GC results
	3/18/99	16:30	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
WEEK 9	3/25/99	8:33	4.2E-02	4.6E-03	2.1E-02	1.9E-03	0	0	8.5E-03	0	2.3E-04	0	0	3.1E-04	1.2E-03	2.5E-04	5.3E-04	1.6E-04	0	1.7E-03	7.6E-02	Converted Lab results
	3/25/99	8:33	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
	3/25/99	9:56	2.3E-02	4.8E-03	1.2E-03	2.3E-03	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7E-03	3.8E-02	Converted Lab results
	3/25/99	9:56	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
WEEK 10	3/25/99	11:26	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	3/25/99	15:27	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	4/1/99	8:55	5.7E-02	7.7E-03	1.9E-02	0	0	3.6E-03	0	0	0	0	0	0	1.9E-03	0	0	0	0	3.9E-03	9.7E-02	Converted Lab results
	4/1/99	8:55	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
WEEK 11	4/1/99	11:25	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	4/1/99	14:25	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	4/8/99	8:07	1.5E-01	0	6.5E-02	0	0	0	0	0	4.9E-04	0	0	0	0	0	0	0	0	2.8E-03	2.5E-01	Converted Lab results
	4/8/99	8:07	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
WEEK 12	4/8/99	8:55	7.0E-02	6.3E-03	5.4E-03	7.7E-03	0	4.7E-03	5.6E-04	0	0	0	0	4.7E-04	5.8E-03	0	9.1E-04	2.0E-04	1.5E-04	2.2E-03	1.0E-01	Converted Lab results
	4/8/99	8:55	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
	4/8/99	10:23	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	4/8/99	14:25	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
WEEK 13	4/15/99	10:00	5.5E-02	0	1.2E-02	3.5E-03	0	2.5E-03	0	0	0	0	0	0	3.4E-03	2.3E-04	1.7E-04	0	0	0	7.7E-02	Converted Lab results
	4/15/99	10:00	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	4/15/99	10:59	2.2E-02	0	5.7E-03	0	0	3.6E-03	0	0	0	0	0	1.0E-03	3.1E-04	3.2E-03	8.9E-05	3.5E-04	0	0	3.6E-02	Converted Lab results
	4/15/99	10:59	6.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0E-02	GC results
WEEK 14	4/15/99	11:28	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	4/15/99	16:28	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	4/22/99	10:24	2.9E-02	2.5E-03	2.8E-03	1.1E-03	0	6.7E-03	0	0	0	0	0	0	1.3E-03	0	3.7E-04	0	0	1.2E-03	4.5E-02	Converted Lab results
	4/22/99	10:24	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
WEEK 15	4/22/99	11:07	4.2E-02	0	6.8E-03	1.9E-03	1.1E-03	6.3E-03	0	0	0	0	0	0	3.4E-03	0	3.1E-04	3.1E-04	0	0	6.2E-02	Converted Lab results
	4/22/99	11:07	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	4/22/99	12:36	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
	4/22/99	16:33	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
WEEK 16	4/29/99	8:57	1.4E-02	9.7E-04	1.2E-03	4.8E-04	0	1.4E-03	0	0	0	0	0	0	8.0E-04	0	1.3E-04	0	0	3.1E-02	5.0E-02	Converted Lab results
	4/29/99	8:57	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	4/29/99	9:42	7.3E-03	2.7E-03	1.8E-03	6.1E-04	0	2.0E-03	0	0	0	0	0	1.3E-04	1.4E-03	0	2.8E-04	0	0	0	1.6E-02	Converted Lab results
	4/29/99	9:42	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
WEEK 17	4/29/99	11:12	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	4/29/99	13:10	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	5/6/99	10:59	3.6E-02	2.0E-03	2.2E-03	8.4E-04	0	5.8E-03	0	0	2.3E-04	0	0	0	0	0	3.9E-04	0	0	0	5.2E-02	Converted Lab results
	5/6/99	10:59	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
WEEK 18	5/6/99	12:29	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	5/6/99	16:28	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	5/13/99	10:30	1.1E-02	1.3E-03	1.8E-03	1.2E-03	0	2.0E-03	0	0	0	0	0	2.0E-04	2.7E-03	0	3.2E-04	0	0	1.1E-03	2.2E-02	Converted Lab results
	5/13/99	10:30	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results

1 ppm = 1 mg/m³ (NIOSH, 1997)

PCB - POLYCHLOROBIPHENYLENE
CHLM - CHLOROMETHANE
MC - METHYLENE CHLORIDE
CD - CARBON DISULFIDE
DCE - 1,1-DICHLOROETHYLENE

1 ppm = 1 mg/m³ (NIOSH, 1997)

TCE - TRICHLOROETHYLENE
EB - ETHYLBENZENE
BENZENE
TOLUENE
XYLENES

1 ppm = 1 mg/m³ (NIOSH, 1997)

1,2-TCE - 1,1,2-TRICHLOROETHANE
CF - CHLOROPFORM
DBCM - DIBROMOCHLOROMETHANE
IDCP - trans-1,3-DICHLOROPROPENE

AIR QUALITY DATA - MID-CARBON (SMP 5) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the mid-carbon sample location.

TCA - 1,1,1-TRICHLOROETHANE	5.55	STYRENE	4.26
CT - CARBON TETRACHLORIDE	6.29	BM - BROMOMETHANE	1.89

SOIL REMEDIAL ACTION
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SAG HARBOR, NEW YORK

AIR QUALITY DATA - POST-CARBON (RMF 9) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the post-carbon sample location.

Sample Date	Sample Time	PCB (ppm)	CHL.M (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	trans-DCE (ppm)	cis-DCE (ppm)	1-DCA (ppm)	2-PCA (ppm)	CB (ppm)	TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EA (ppm)	p-Xylene (ppm)	m-Xylene (ppm)	Styrene (ppm)	BMI (ppm)	TOTAL VOC (ppm)	COMMENTS
WEEK 1	1/28/99 14:17	5.5E-03	0	0	0	0	5.4E-03	5.0E-03	5.3E-04	1.1E-03	1.8E-01	0	1.4E-02	0	0	0	0	0	0	0	0	3.1E-01	Converted from Lab results
	1/28/99 14:17	5.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-02	GC results
	1/28/99 14:41	7.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.0E-02	GC results
	1/28/99 15:11	6.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0E-02	GC results
	1/28/99 18:11	2.2E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2E-01	GC results
	1/28/99 22:06	1.7E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7E-01	GC results
	1/28/99 13:07	1.3E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3E-01	GC results
	2/4/99 10:11	0	1.8E-02	2.4E-02	5.5E-04	0	0	0	0	0	0	0	3.1E-03	0	1.4E-03	6.9E-04	0	0	0	0	0	4.7E-02	Converted from Lab results
	2/4/99 10:11	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/4/99 12:36	1.2E-03	0	0	4.8E-03	0	0	0	0	0	0	0	3.9E-03	0	5.3E-04	2.9E-03	0	1.5E-03	0	6.1E-04	0	1.6E-02	Converted from Lab results
WEEK 2	2/4/99 12:36	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/4/99 12:51	1.0E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-03	GC results
	2/4/99 13:21	2.0E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-03	GC results
	2/4/99 14:21	2.0E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-03	GC results
	2/4/99 16:20	3.0E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-03	GC results
	2/4/99 20:19	1.0E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-03	GC results
	2/5/99 11:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/11/99 9:36	0	1.4E-02	0	2.8E-03	0	0	0	0	0	0	0	0	0	2.0E-03	1.9E-03	0	3.0E-04	0	0	0	2.1E-02	Converted from Lab results
	2/11/99 9:36	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/11/99 10:26	5.1E-04	0	0	1.4E-03	0	0	0	0	0	0	0	6.9E-03	0	5.3E-04	9.3E-04	0	0	0	0	0	1.1E-02	Converted from Lab results
WEEK 3	2/11/99 10:26	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/11/99 10:51	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/11/99 11:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/11/99 12:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/11/99 14:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/11/99 18:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/11/99 9:21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/18/99 9:36	0	7.2E-03	4.5E-03	2.6E-03	0	0	0	0	0	0	0	0	0	4.7E-04	9.3E-04	4.1E-04	4.8E-04	2.5E-04	0	3.1E-03	1.7E-02	Converted from Lab results
	2/18/99 9:36	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/18/99 10:26	1.5E-04	0	4.2E-03	1.4E-03	0	0	0	0	0	0	0	0	0	4.1E-04	9.3E-04	0	6.5E-04	0	0	0	7.8E-03	Converted from Lab results
WEEK 4	2/18/99 10:26	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
	2/18/99 11:56	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/18/99 17:56	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/23/99 11:31	3.8E-04	0	4.5E-03	2.0E-03	0	0	0	0	0	0	0	0	0	4.1E-04	8.2E-04	1.4E-04	4.6E-04	1.6E-04	1.2E-04	3.6E-04	9.0E-03	Converted from Lab results
	2/23/99 11:31	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	2/23/99 12:36	3.0E-03	0	4.5E-03	2.4E-03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.7E-04	4.1E-03	1.5E-02	Converted from Lab results
	2/23/99 12:56	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	2/23/99 14:26	5.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-02	GC results
	2/23/99 20:23	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	3/4/99 9:02	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	Converted from Lab results
WEEK 5	3/4/99 9:02	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	3/4/99 10:10	4.4E-04	0	1.4E-02	2.3E-03	0	0	0	0	0	0	0	0	0	7.8E-04	0	5.0E-04	1.8E-03	7.3E-04	0	0	2.0E-02	Converted from Lab results
	3/4/99 10:10	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	3/4/99 11:40	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	3/4/99 17:40	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	3/11/99 9:01	3.6E-04	0	2.5E-03	2.6E-03	0	0	0	0	0	0	0	0	0	0	9.5E-04	2.1E-04	5.8E-04	1.6E-04	0	0	7.4E-03	Converted from Lab results
	3/11/99 9:01	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	3/11/99 9:01	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	3/11/99 9:01	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	3/11/99 9:01	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results

AIR QUALITY DATA - POST-CARBON (SMF 9) (ppm)

Table Purpose: To present laboratory and GC analytical results of air samples collected at the post-carbon sample location.

Sample Date	Sample Time	PCB (ppm)	CHLM (ppm)	MC (ppm)	CD (ppm)	DCE (ppm)	trans-DCE (ppm)	cis-DCE (ppm)	1-DCA (ppm)	2-PCA (ppm)	CB (ppm)	TCA (ppm)	TCE (ppm)	CT (ppm)	Benzene (ppm)	Toluene (ppm)	EB (ppm)	p-Xylene (ppm)	m-Xylene (ppm)	Styrene (ppm)	BM (ppm)	TOTAL VOC (ppm)	COMMENTS
WEEK 7	3/11/99 10:00	3.2E-03	0	2.4E-02	2.0E-03	0	0	0	0	0	0	1.9E-04	0	0	3.8E-04	2.6E-03	2.9E-04	7.6E-04	2.4E-03	0	0	3.6E-02	Converted from Lab results
	3/11/99 10:00	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	3/11/99 11:31	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	3/11/99 17:30	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
WEEK 8	3/18/99 11:21	8.4E-04	4.8E-03	6.8E-03	1.4E-03	0	0	0	0	0	0	0	0	0	3.1E-04	7.7E-04	0	3.7E-04	8.8E-05	0	1.2E-03	1.7E-02	Converted from Lab results
	3/18/99 11:21	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	3/18/99 12:51	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	3/18/99 16:51	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	3/25/99 0:53	1.2E-03	4.5E-03	1.8E-03	1.8E-03	0	0	0	0	0	0	0	0	0	2.3E-04	6.4E-04	0	1.3E-04	0	1.8E-04	1.7E-03	1.2E-02	Converted from Lab results
	3/25/99 8:53	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
WEEK 9	3/25/99 9:57	1.1E-03	3.9E-03	8.8E-04	1.3E-03	0	0	0	0	0	0	0	0	0	2.5E-04	5.6E-04	0	2.9E-04	0	2.8E-04	1.3E-03	9.8E-03	Converted from Lab results
	3/25/99 9:57	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	3/25/99 11:27	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	3/25/99 15:28	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
WEEK 10	4/1/99 8:56	2.6E-03	0	1.4E-02	3.5E-03	0	0	0	0	0	0	4.0E-04	3.9E-04	0	8.8E-04	4.8E-03	0	3.9E-04	0	4.5E-04	4.1E-03	3.4E-02	Converted from Lab results
	4/1/99 8:56	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	4/1/99 10:26	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	4/1/99 14:26	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
	4/8/99 8:08	3.2E-03	1.7E-02	1.4E-02	4.8E-03	0	0	0	0	0	0	0	2.8E-03	0	2.3E-03	7.7E-03	8.8E-04	2.0E-03	4.9E-04	1.2E-02	3.3E-03	7.2E-02	Converted from Lab results
	4/8/99 8:08	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
WEEK 11	4/8/99 8:56	2.2E-03	6.8E-03	0	6.1E-03	0	0	0	0	0	0	0	0	0	6.6E-04	7.2E-03	0	1.4E-03	3.8E-04	1.2E-03	2.8E-03	2.9E-02	Converted from Lab results
	4/8/99 8:56	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	4/8/99 10:26	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	4/8/99 14:27	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	4/15/99 10:01	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	Converted from Lab results
	4/15/99 10:01	3.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0E-02	GC results
WEEK 12	4/15/99 10:59	3.5E-04	0	2.3E-02	4.5E-03	0	0	0	0	0	0	0	0	0	1.1E-03	3.2E-03	0	3.0E-04	0	0	0	3.3E-02	Converted from Lab results
	4/15/99 10:59	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	4/15/99 12:29	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	4/15/99 16:29	5.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E-02	GC results
	4/22/99 10:25	3.5E-03	0	2.7E-03	2.3E-03	0	0	0	0	0	0	0	0	0	1.7E-04	2.7E-03	0	6.2E-04	0	0	0	1.2E-02	Converted from Lab results
	4/22/99 10:25	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
WEEK 13	4/22/99 11:07	3.8E-04	1.7E-03	2.3E-03	1.6E-03	0	0	0	0	0	0	0	0	0	1.0E-04	4.0E-03	2.2E-04	5.5E-04	1.8E-04	2.7E-04	3.1E-04	1.2E-02	Converted from Lab results
	4/22/99 11:07	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results
	4/22/99 12:36	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	4/22/99 16:36	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	4/29/99 8:57	1.2E-03	7.2E-04	6.2E-04	3.5E-04	0	0	0	0	0	0	0	0	0	0	1.1E-03	0	0	0	0	2.2E-03	2.6E-02	Converted from Lab results
	4/29/99 8:57	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
WEEK 14	4/29/99 9:42	5.8E-04	1.9E-03	1.2E-03	3.9E-04	0	0	0	0	0	0	0	0	0	9.4E-05	1.4E-03	0	1.6E-04	0	0	0	5.7E-03	Converted from Lab results
	4/29/99 9:42	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	4/29/99 11:13	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
	4/29/99 15:10	1.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0E-02	GC results
WEEK 15	5/6/99 11:00	3.2E-03	6.3E-03	1.2E-02	1.4E-03	0	0	0	0	0	0	0	0	0	6.0E-04	5.8E-03	3.4E-04	8.6E-04	0	0	0	3.1E-02	Converted from Lab results
	5/6/99 11:00	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	5/6/99 12:30	4.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0E-02	GC results
	5/6/99 16:28	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	GC results
	5/12/99 10:30	0	2.5E-03	1.1E-03	1.9E-03	0	0	0	6.4E-04	0	0	0	0	0	0	3.2E-03	0	3.2E-04	0	8.3E-04	9.5E-04	1.1E-02	Converted from Lab results
	5/12/99 10:30	2.0E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0E-02	GC results

1 ppm = 1 µg/m³ (NIOSH 1997)

PCB - TETRACHLOROBIPHENYL 6.89
 CHLM - CHLOROMETHANE 2.07
 MC - METHYLENE CHLORIDE 3.33
 CD - CARBON DISULFIDE 3.11
 DCE - 1,1-DICHLOROETHYLENE 4.03
 TCA - 1,1,1-TRICHLOROETHANE 5.35
 CT - CARBON TETRACHLORIDE 6.29

TCE - TRICHLOROETHYLENE 5.4
 EB - ETHYLBENZENE 4.41
 BENZENE 3.19
 TOLUENE 3.77
 XYLENES 4.34
 STYRENE 4.26
 BM - BROMOMETHANE 3.89

1 ppm = 1 µg/m³ (NIOSH 1997)

trans-DCE - 1,2-DICHLOROETHYLENE (trans) 3.97
 cis-DCE - 1,2-DICHLOROETHYLENE (cis) 3.97
 2-DCE - 1,2-DICHLOROETHANE 4.05
 2-PCA - 1,1,2,2-TETRACHLOROETHANE 6.87
 CB - CHLOROBENZENE 4.61

1 ppm = 1 µg/m³ (NIOSH 1997)

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIR QUALITY DATA - SUMMARY OF LABORATORY TOTAL VOCs, PCE USING THE PORTABLE GC AND PID FIELD SCREENING RESULTS

Table Purpose: To present a summary of laboratory data and field screening results for all sample locations

	Date	Sample Event	Pre-Carbon (SMP 7)			Mid-Carbon (SMP 8)			Post-Carbon (SMP 9)			Manifold A (SMP 3)			Manifold B (SMP 4)		
			LAB	GC	PID	LAB	GC	PID	LAB	GC	PID	LAB	GC	PID	LAB	GC	PID
WEEK 1	1/28/99	5 minute	4.4	8.2	5.7	2.6E-01	1.2E-01	1.9	3.1E-01	5.0E-02	0.0				9.4	2.3	3.8
	1/28/99	30 minute		9.2	4.6		2.8E-01	0.0		7.0E-02	0.0					9.7	4.6
	1/28/99	1 hour		8.6	4.6		3.4E-01	0.0		6.0E-02	0.0					1.1E+01	4.6
	1/28/99	4 hour		9.7	4.6		4.8E-01	0.0		2.2E-01	0.0					1.4E+01	4.6
	1/28/99	8 hour		8.6E+00	4.6		5.4E-01	0.0		1.7E-01	0.0					1.4E+01	4.6
	1/29/99	24 hour		1.3E+01	4.6		4.5E-01	0.0		1.3E-01	0.0					1.4E+01	4.6
	2/4/99	7 day	1.3	3.3	6.7	1.3E-01	1.0	0.0	4.7E-02	0	0.0					4.2	2.2
WEEK 2	2/4/99	5 minute	2.6	1.3E+01	8.9	1.4E-01	0	0.0	1.6E-02	0	0.0	1.0E+01	2.6E+01	33.5	1.3	4.0	4.4
	2/4/99	30 minute		1.2E+01	8.9		5.5E-01	0.0		1.0E-03	0.0		4.5E+01	1.8E+01		8.8	2.2
	2/4/99	1 hour		1.5E+01	8.9		5.2E-01	0.0		2.0E-03	0.0		2.2E+01	2.2E+01		4.4	2.2
	2/4/99	2 hour		1.3E+01	4.4		5.6E-01	0.0		2.0E-03	0.0		3.7E+01	1.8E+01		3.6	2.2
	2/4/99	4 hour		1.0E+01	4.4		5.8E-01	0.0		3.0E-03	0.0		3.1E+01	2.5E+01		2.7	2.2
	2/4/99	8 hour		1.2E+01	4.4		4.1E-01	0.0		1.0E-03	0.0		5.7	1.3E+01		6.2	2.2
	2/5/99	24 hour		8.1	4.4		4.0E-01	0.0		0	0.0		9.6	2.0E+01		3.9	2.2
WEEK 3	2/11/99	7 day	2.3	3.3E-01	2.4	1.3E-01	3.0E-02	2.4	2.1E-02	0	0.0		3.00E-01	9.6		3.3E-01	2.4
	2/11/99	5 minute	4.5	3.0E-01	2.4	1.2E-01	1.8E-01	2.4	1.1E-02	0	0.0	9.5E-01	9.0E-02	2.4			
	2/11/99	30 minute		6.0E-01	4.8		9.0E-02	0.0		0	0.0		2.7E-01	2.4			
	2/11/99	1 hour		4.2E-01	2.4		1.1E-01	0.0		0	0.0		3.9E-01	2.4			
	2/11/99	2 hour		4.8E-01	2.4		9.0E-02	0.0		0	0.0		3.0E-01	2.4			
	2/11/99	4 hour		4.8E-01	2.4		9.0E-02	0.0		0	0.0		3.3E-01	2.4			
	2/11/99	8 hour		5.4E-01	2.4		6.0E-02	0.0		0	0.0		8.7E-01	2.4			
WEEK 4	2/12/99	24 hour		5.4E-01	2.1		9.0E-02	0.0		0	0.0		9.0E-01	2.1			
	2/18/99	7 day	6.6E-01	5.6E-01	2.5	2.2E-01	3.0E-02	0.0	1.7E-02	0	0.0		3.0E-01	2.5			
	2/18/99	30 minute	2.9E-01	2.2E-01	2.5	9.5E-02	4.0E-02	0.0	7.8E-03	3.0E-02	0.0				5.0E-01	1.8E-01	2.5
	2/18/99	2 hour		1.8E-01	2.5		3.0E-02	0.0		2.0E-02	0.0					1.4E-01	2.5
	2/18/99	8 hour		2.1E-01	2.5		5.0E-02	0.0		0	0.0					1.3E-01	2.5
	2/25/99	7 day	1.0	2.4E-01	2.0	6.3E-02	4.7E-02	0.0	9.0E-03	0	0.0				1.2	2.2E-01	0.0
	2/25/99	30 minute	2.6	1.4	2.0	7.7E-02	4.0E-02	0.0	1.5E-02	2.0E-02	0.0	8.2	1.6	4.1	1.2	6.3E-01	0.0
WEEK 5	2/25/99	2 hour		1.1	2.0		4.0E-02	0.0		5.0E-02	0.0		1.4	4.1		5.6E-01	0.0
	2/25/99	8 hour		9.3E-01	2.0		3.0E-02	0.0		1.0E-02	0.0		1.2	4.1		4.1E-01	0.0
	3/4/99	7 day	2.1	2.7E-01	2.0	4.9E-02	6.0E-02	0.0	/	4.0E-02	0.0	3.3	8.1E-01	2.0	4.2E-01	/	2.0
	3/4/99	30 minute	6.7E-01	2.6E-01	2.0	4.8E-02	4.0E-02	0.0	2.0E-02	2.0E-02	0.0	5.3E-01	2.1E-01	2.0			
WEEK 6	3/4/99	2 hour		3.9E-01	2.0		6.0E-02	0.0		2.0E-02	0.0		1.2E-01	2.0			
	3/4/99	8 hour		3.8E-01	2.0		3.0E-02	0.0		0	0.0		1.5E-01	2.0			
	3/11/99	7 day	9.9E-01	9.0E-02	1.3	8.6E-02	3.0E-02	3.0E-01	7.4E-03	1.0E-02	0.0	9.0E-01	5.3E-01	0.0			

AIR QUALITY DATA - SUMMARY OF LABORATORY TOTAL VOCs, PCE USING THE PORTABLE GC AND PID FIELD SCREENING RESULTS

Table Purpose: To present a summary of laboratory data and field screening results for all sample locations

	Date	Sample Event	Pre-Carbon (SMP 7)			Mid-Carbon (SMP 8)			Post-Carbon (SMP 9)			Manifold A (SMP 3)			Manifold B (SMP 4)		
			LAB	GC	PID	LAB	GC	PID	LAB	GC	PID	LAB	GC	PID	LAB	GC	PID
WEEK 7	3/11/99	30 minute	4.6E-01	8.0E-02	6.0E-01	8.7E-02	5.0E-02	3.0E-01	3.6E-02	1.0E-02	0.0				6.7E-01	1.3E-01	7.0E-01
	3/11/99	2 hour		8.0E-02	8.0E-01		3.0E-02	5.0E-01		4.0E-02	0.0					2.2E-01	8.0E-01
	3/11/99	8 hour		9.0E-02	8.0E-01		2.0E-02	3.0E-01		1.0E-02	0.0					2.6E-01	0.0
WEEK 8	3/18/99	30 minute	1.1	1.8E-01	2.5	7.1E-02	3.0E-02	3.0E-01	1.7E-02	1.0E-02	0.0				7.1E-01	6.6E-01	0.0
	3/18/99	2 hour		4.3E-01	3.4		5.0E-02	5.0E-01		4.0E-02	0.0					4.9E-01	0.0
	3/18/99	6 hour		2.7E-01	2.3		3.0E-02	3.0E-01		2.0E-02	0.0					5.4E-01	0.0
	3/25/99	7 day	5.2E-01	2.0E-01	1.5	7.6E-02	3.0E-02	0.0	1.2E-02	0	0.0				6.7E-01	1.8E-01	0.0
WEEK 9	3/25/99	30 minute	1.5	2.9E-01	1.7	3.8E-02	2.0E-02	0.0	9.8E-03	4.0E-02	0.0	4.8	7.4E-01	2.4	7.9E-01	1.7E-01	0.0
	3/25/99	2 hour		2.1E-01	2.2		1.0E-02	0.0		0	0.0		8.2E-01	3.2		2.3E-01	2.0E-01
	3/25/99	6 hour		2.5E-01	2.3		1.0E-02	0.0		1.0E-02	0.0		6.6E-01	4.5		1.4E-01	9.0E-01
WEEK 10	4/1/99	30 minute	2.2	3.9E-01	3.0	9.7E-02	3.0E-02	4.0E-01	3.4E-02	1.0E-02	0.0	1.1	8.0E-02	3.0E-01			
	4/1/99	2 hour		1.4E-01	2.6		2.0E-02	1.0E-01		4.0E-02	0.0		1.3E-01	5.0E-01			
	4/1/99	6 hour		4.6E-01	2.4		4.0E-02	5.0E-01		3.0E-02	0.0		1.0E-01	1.1			
	4/8/99	7 day	1.2	1.3E-01	3.2	2.5E-01	1.0E-02	0.0	7.2E-02	0	0.0	1.3	1.3E-01	3.2			
WEEK 11	4/8/99	30 minute	1.2	2.6E-01	3.2	1.0E-01	3.0E-02	0.0	2.9E-02	2.0E-02	0.0				1.1	1.3E-01	3.2
	4/8/99	2 hour		8.6E-02	3.2		4.0E-02	0.0		1.0E-02	0.0					3.1E-01	0.0
	4/8/99	6 hour		8.6E-02	3.2		3.0E-02	0.0		1.0E-02	0.0					2.3E-01	0.0
	4/15/99	7 day	4.8E-01	3.0E-01	3.1	7.7E-02	2.0E-02	1.0	/	3.0E-02	0.0				4.1E-01	2.6E-01	1.0
WEEK 12	4/15/99	30 minute	1.7	1.5	3.1	3.6E-02	6.0E-02	1.0	3.3E-02	2.0E-02	0.0	4.4	9.9E-01	5.3	1.3	2.8E-01	1.0
	4/15/99	2 hour		3.3E-01	2.2		4.0E-02	0.0		4.0E-02	0.0		6.9E-01	2.2		2.4E-01	0.0
	4/15/99	6 hour		4.8E-01	3.1		2.0E-02	0.0		5.0E-02	0.0		1.1	3.1		1.9E-01	1.0
	4/22/99	7 day	6.1E-01	2.9E-01	2.1	4.5E-02	5.0E-02	0.0	1.2E-02	0	0.0	1.7	7.2E-01	2.1	3.7E-01	1.2E-01	0.0
WEEK 13	4/22/99	30 minute	4.6E-01	2.9E-01	2.0	6.2E-02	1.0E-02	0.0	1.2E-02	2.0E-02	0.0	8.0E-02	1.0E-01	0.0			
	4/22/99	2 hour		2.8E-01	1.0		3.0E-02	0.0		1.0E-02	0.0		1.7E-01	1.0			
	4/22/99	6 hour		3.1E-01	1.0		1.0E-02	0.0		0	0.0		2.7E-01	1.0			
	4/29/99	7 day	3.7E-01	2.7E-01	1.0	5.0E-02	1.0E-02	0.0	2.6E-02	0	0.0	0.4	2.8E-01	1.0			
WEEK 14	4/29/99	30 minute	3.5E-01	1.2E-01	1.0	1.6E-02	2.0E-02	0.0	5.7E-03	1.0E-02	0.0				1.0	2.0E-01	1.0
	4/29/99	2 hour		1.5E-01	1.0		4.0E-02	0.0		1.0E-02	0.0					2.1E-01	1.0
	4/29/99	6 hour		1.6E-01	1.0		2.0E-02	0.0		1.0E-02	0.0					1.9E-01	1.0
WEEK 15	5/6/99	30 minute	1.3	5.0E-01	1.1	5.2E-02	0.0	0.0	3.1E-02	0	0.0	3.4	1.4	1.1	5.4E-01	2.0E-01	1.1
	5/6/99	2 hour		1.5	1.1		4.0E-02	0.0		4.0E-02	0.0		2.3	3.3		1.1E-01	1.1
	5/6/99	6 hour		5.6E-01	1.1		2.0E-02	0.0		0	0.0		1.2	3.3		2.4E-01	1.1
	5/13/99	7 day	6.4E-01	5.1E-01	1.1	2.2E-02	2.0E-02	1.1	1.1E-02	2.0E-02	0.0	1.8	1.7	3.3	2.3E-01	2.3E-01	1.1

Table Purpose: To present a summary of laboratory data and field screening results for all sample locations

		Sample Event	Manifold C (SMP 2)			SI Manifold (SMP 1)			own Wind	own Wind	Up Wind
	Date		LAB	GC	PID	LAB	GC	PID	PID	PID	PID
WEEK 1	1/28/99	5 minute	6.5	1.6E+01	7.6	6.7E-02	1.6E-01	1.9	0.0	0.0	0.0
	1/28/99	30 minute		1.8E+01	9.3		2.1E-01	2.3			
	1/28/99	1 hour		3.1E+01	1.4E+01		2.5E-01	1.0			
	1/28/99	4 hour		3.1E+01	1.2E+01		2.0E-01	0.0			
	1/28/99	8 hour		2.0E+01	9.3		2.9E-01	0.0			
	1/29/99	24 hour		3.4E+01	9.3		2.6E-01	0.0	0.0	0.0	0.0
	2/4/99	7 day		9.3	6.7		2.5E-01	0.0	0.0	0.0	0.0
WEEK 2	2/4/99	5 minute				6.4E-02	5.2E-01	0.0			
	2/4/99	30 minute					2.6E-01	0.0			
	2/4/99	1 hour					2.2E-01	0.0			
	2/4/99	2 hour					3.6E-01	0.0			
	2/4/99	4 hour					2.3E-01	0.0			
	2/4/99	8 hour					3.0E-01	0.0			
	2/5/99	24 hour					2.1E-01	0.0	0.0	0.0	0.0
	2/11/99	7 day					4.0E-01	0.0	0.0	0.0	0.0
WEEK 3	2/11/99	5 minute	3.5E+00	1.5	7.2	9.5E-03	9.0E-02	2.4			
	2/11/99	30 minute		1.0	7.2		1.0E-02	2.4			
	2/11/99	1 hour		1.7	2.4		5.0E-02	0.0			
	2/11/99	2 hour		1.7	2.4		4.0E-02	0.0			
	2/11/99	4 hour		1.6	2.4		0	0.0			
	2/11/99	8 hour		1.4	2.4		1.0E-02	0.0			
	2/12/99	24 hour		3.2	2.1		1.0E-01	0.0	0.0	0.0	0.0
	2/18/99	7 day		1.0	2.5		1.0E-02	0.0	0.0	0.0	0.0
WEEK 4	2/18/99	30 minute	5.3E-01	4.2E-01	2.5	2.1E-02	3.0E-02	0.0			
	2/18/99	2 hour		1.0E-01	2.5		1.0E-02	0.0			
	2/18/99	8 hour		6.8E-01	2.5		0	0.0			
	2/25/99	7 day	2.6	2.4E-01	2.0	2.5E-02	3.00E-02	0.0	0.0	0.0	0.0
WEEK 5	2/25/99	30 minute				5.3E-02	3.0E-02	0.0			
	2/25/99	2 hour					4.0E-02	0.0			
	2/25/99	8 hour					4.0E-02	0.0			
	3/4/99	7 day				1.7E-02	1.0E-02	0.0	0.0	0.0	0.0
WEEK 6	3/4/99	30 minute	2.4	6.0E-01	2.0	3.4E-02	3.0E-02	0.0			
	3/4/99	2 hour		6.0E-01	2.0		3.0E-02	0.0			
	3/4/99	8 hour		/	2.0		1.0E-02	0.0			
	3/11/99	7 day	1.9	1.0	0.0	3.0E-02	1.0E-02	3.0E-01	0.0	0.0	0.0

AIR QUALITY DATA - SUMMARY OF LABORATORY TOTAL VOCs, PCE USING THE PORTABLE GC AND PID FIELD SCREENING RESULTS

Table Purpose: To present a summary of laboratory data and field screening results for all sample locations

	Date	Sample Event	Manifold C (SMP 2)			SI Manifold (SMP 1)			own Wind	own Wind	Up Wind
			LAB	GC	PID	LAB	GC	PID	PID	PID	PID
WEEK 7	3/11/99	30 minute	1.0	1.4E-01	1.3	1.6	/	0.0			
	3/11/99	2 hour		3.6E-01	1.8						
	3/11/99	8 hour		4.8E-01	2.2						
WEEK 8	3/18/99	30 minute	1.7	5.4E-01	3.9						
	3/18/99	2 hour		6.6E-01	5.0						
	3/18/99	6 hour		6.6E-01	4.7						
	3/25/99	7 day	2.0	3.9E-01	2.6				0.0	0.0	0.0
WEEK 9	3/25/99	30 minute									
	3/25/99	2 hour									
	3/25/99	6 hour									
WEEK 10	4/1/99	30 minute	7.3	5.5E-01	5.9						
	4/1/99	2 hour		7.8E-01	3.0						
	4/1/99	6 hour		4.7E-01	1.4						
	4/8/99	7 day	2.6	2.2E-01	3.2				0.0	0.0	0.0
WEEK 11	4/8/99	30 minute	1.2	2.0E-01	1.0						
	4/8/99	2 hour		2.0E-01	3.2						
	4/8/99	6 hour		4.6E-01	1.0						
	4/15/99	7 day	9.7E-01	4.3E-01	1.0				0.0	0.0	0.0
WEEK 12	4/15/99	30 minute									
	4/15/99	2 hour									
	4/15/99	6 hour									
	4/22/99	7 day							0.0	0.0	0.0
WEEK 13	4/22/99	30 minute	1.8	4.8E-01	2.0						
	4/22/99	2 hour		7.6E-01	1.0						
	4/22/99	6 hour		7.9E-01	1.0						
	4/29/99	7 day	6.0E-01	5.7E-01	1.0				0.0	0.0	0.0
WEEK 14	4/29/99	30 minute	9.7E-01	1.5E-01	1.0						
	4/29/99	2 hour		3.1E-01	0.0						
	4/29/99	6 hour		3.6E-01	0.0						
WEEK 15	5/6/99	30 minute									
	5/6/99	2 hour									
	5/6/99	6 hour									
	5/13/99	7 day							0.0	0.0	0.0

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

PCE, TCE, TCA AND TOTAL VOC LOADING ESTIMATES USING LABORATORY DATA

Table Purpose: Calculate the loading of PCE, TCE, TCA and Total VOCs on the carbon units based on laboratory data.

WEEK	Date	Airflow (acfm)	Approx. Sampling Interval (hr)	Cum. Hours of Operation (hr)	PCE (mg/m ³)			(lb/hr)			(lb)	
					Pre- Carbon	Mid- Carbon	Post- Carbon	Pre- Carbon (PCE)	Mid- Carbon	Post- Carbon	Lead Carbon Unit Loading	Secondary Carbon Unit Loading
1	1/28/99	741	0.1	0.1	3.0E+01	1.2	3.8E-02	8.5E-02	3.4E-03	1.1E-04	8.2E-03	3.3E-04
	2/4/99	748	163.8	163.9	9.0	5.5E-01	0	2.6E-02	1.6E-03	0	4.0	2.6E-01
2	2/4/99	739	0.1	164.0	1.7E+01	8.0E-01	8.6E-03	4.8E-02	2.3E-03	2.4E-05	4.6E-03	2.2E-04
	2/11/99	736	165.1	329.1	1.0E+01	8.5E-01	0	2.8E-02	2.4E-03	0	4.3	3.9E-01
3	2/11/99	750	0.1	329.2	4.4	8.0E-01	3.5E-03	1.3E-02	2.3E-03	1.0E-05	1.0E-03	2.3E-04
	2/18/99	707	167.3	496.5	4.4	5.5E-01	0	1.2E-02	1.5E-03	0	1.7	2.5E-01
4	2/18/99	725	0.5	497.0	2.0	5.0E-01	1.0E-03	5.5E-03	1.4E-03	2.8E-06	2.1E-03	6.9E-04
	2/25/99	722	121.4	618.4	6.8	3.3E-01	2.6E-03	1.9E-02	9.1E-04	7.2E-06	2.2	1.1E-01
5	2/25/99	740	0.5	618.9	1.8E+01	4.0E-01	2.1E-02	5.1E-02	1.1E-03	5.9E-05	2.5E-02	5.4E-04
	3/4/99	737	164.5	783.4	6.8	2.4E-01	/	1.9E-02	6.8E-04	/	3.0	1.1E-01
6	3/4/99	714	0.5	783.9	3.7	2.5E-01	3.0E-03	1.0E-02	6.8E-04	8.2E-06	4.7E-03	3.4E-04
	3/11/99	696	167.4	951.3	4.8	4.6E-01	2.5E-03	1.3E-02	1.2E-03	6.7E-06	1.9	2.0E-01
7	3/11/99	624	0.5	951.8	2.9	4.6E-01	2.2E-02	6.9E-03	1.1E-03	5.2E-05	2.9E-03	5.2E-04
8	3/18/99	637	0.5	983.9	4.4	3.5E-01	5.8E-03	1.1E-02	8.5E-04	1.4E-05	4.9E-03	4.2E-04
	3/25/99	667	63.7	1047.6	3.1	2.9E-01	8.4E-03	7.9E-03	7.4E-04	2.1E-05	4.6E-01	4.6E-02
9	3/25/99	630	0.5	1048.1	9.0	1.6E-01	7.3E-03	2.2E-02	3.9E-04	1.8E-05	1.1E-02	1.8E-04
10	4/1/99	635	0.5	1171.5	1.3E+01	3.9E-01	1.8E-02	3.2E-02	9.5E-04	4.4E-05	1.5E-02	4.5E-04
	4/8/99	608	69.1	1240.6	7.3	1.0	3.6E-02	1.7E-02	2.3E-03	8.4E-05	1.0	1.5E-01
11	4/8/99	632	0.5	1241.1	5.5	4.8E-01	1.5E-02	1.3E-02	1.2E-03	3.6E-05	6.1E-03	5.6E-04
	4/15/99	638	169.4	1410.4	3.2	3.8E-01	/	7.8E-03	9.3E-04	/	1.2	1.6E-01
12	4/15/99	648	0.5	1410.9	1.0E+01	1.5E-01	3.8E-03	2.5E-02	3.7E-04	9.4E-06	1.2E-02	1.8E-04
	4/22/99	627	167.5	1578.5	4.0	2.0E-01	2.4E-02	9.6E-03	4.8E-04	5.8E-05	1.5	7.1E-02
13	4/22/99	627	0.5	1579.0	3.0	2.9E-01	2.6E-03	7.2E-03	7.0E-04	6.2E-06	3.2E-03	3.4E-04
	4/29/99	623	166.0	1745.0	1.6	9.7E-02	8.6E-03	3.8E-03	2.3E-04	2E-05	5.9E-01	3.5E-02
14	4/29/99	638	0.5	1745.5	2.3	5.0E-02	4.0E-03	5.6E-03	1.2E-04	9.8E-06	2.7E-03	5.6E-05
15	5/6/99	654	0.5	1821.1	9.1	2.5E-01	2.2E-02	2.3E-02	6.3E-04	5.5E-05	1.1E-02	2.9E-04
	5/13/99	641	167.7	1988.8	4.3	7.8E-02	0	1.1E-02	1.9E-04	0	1.7	3.2E-02
23.695											1.827	

PCE

PCE, TCE, TCA AND TOTAL VOC LOADING ESTIMATES USING LABORATORY DATA

Table Purpose: Calculate the loading of PCE, TCE, TCA and Total VOCs on the carbon units based on laboratory data.

TCE

WEEK	Date	Airflow (acfm)	Approx. Sampling Interval (hr)	Cum. Hours of Operation (hr)	(mg/hr)			(lb/hr)			(lb)	
					Pre-Carbon	Mid-Carbon	Post-Carbon	Pre-Carbon (TCE)	Mid-Carbon	Post-Carbon	Lead Carbon Unit Loading	Secondary Carbon Unit Loading
1	1/28/99	741	0.1	0.1	5.0E-01	2.3E-02	7.4E-02	1.4E-03	6.5E-05	2.1E-04	1.4E-04	0
	2/4/99	748	163.8	163.9	1.9E-01	2.8E-02	1.7E-02	5.4E-04	8.0E-05	4.9E-05	7.6E-02	1.3E-02
2	2/4/99	739	0.1	164.0	3.8E-01	2.6E-02	2.1E-02	1.1E-03	7.3E-05	5.9E-05	1.0E-04	1.4E-06
	2/11/99	736	165.1	329.1	3.2E-01	0	0	9.0E-04	0	0	1.5E-01	0
3	2/11/99	750	0.1	329.2	1.3E+01	0	3.7E-02	3.7E-02	0	1.1E-04	3.7E-03	0
	2/18/99	707	167.3	496.5	0	6.5E-01	0	0	1.8E-03	0	0	2.9E-01
4	2/18/99	725	0.5	497.0	0	0	0	0	0	0	0	0
	2/25/99	722	121.4	618.4	2.4E-02	0	0	6.6E-05	0	0	8.0E-03	0
5	2/25/99	740	0.5	618.9	0	0	0	0	0	0	0	0
	3/4/99	737	164.5	783.4	0	4.0E-04	/	0	1.1E-06	/	0.0E+00	/
6	3/4/99	714	0.5	783.9	4.0E-03	0	0	1.1E-05	0	0	5.5E-06	0
	3/11/99	696	167.4	951.3	0	9.9E-04	0	0	2.6E-06	0	0	4.4E-04
7	3/11/99	624	0.5	951.8	2.0E-02	1.2E-03	0	4.8E-05	2.9E-06	0	2.2E-05	1.4E-06
	3/18/99	637	0.5	983.9	0	1.0E-03	0	0	2.4E-06	0	0	1.2E-06
8	3/25/99	667	63.7	1047.6	6.5E-03	4.6E-04	0	1.7E-05	1.2E-06	0	9.9E-04	7.4E-05
	3/25/99	630	0.5	1048.1	0	0	0	0	0	0	0	0
10	4/1/99	635	0.5	1171.5	0	0	3.2E-03	0	0	7.8E-06	0	0
	4/8/99	608	69.1	1240.6	0	3.6E-03	1.5E-02	0	8.4E-06	3.5E-05	0	0
11	4/8/99	632	0.5	1241.1	0	3.0E-03	0	0	7.2E-06	0	0	3.6E-06
	4/15/99	638	169.4	1410.4	1.6E-02	0	/	3.9E-05	0	/	6.6E-03	/
12	4/15/99	648	0.5	1410.9	0	0	0	0	0	0	0	0
	4/22/99	627	167.5	1578.5	0	0	0	0	0	0	0	0
13	4/22/99	627	0.5	1579.0	0	0	0	0	0	0	0	0
	4/29/99	623	166.0	1745.0	0	0	0	0	0	0	0	0
14	4/29/99	638	0.5	1745.5	3.1E-02	0	0	7.6E-05	0	0	3.8E-05	0
	5/6/99	654	0.5	1821.1	0	0	0	0	0	0	0	0
15	5/13/99	641	167.7	1988.8	0	0	0	0	0	0	0	0

2.4E-01

3.1E-01

TCE

6/23/99

LAB Carbon Loading

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PCE, TCE, TCA AND TOTAL VOC LOADING ESTIMATES USING LABORATORY DATA

Table Purpose: Calculate the loading of PCE, TCE, TCA and Total VOCs on the carbon units based on laboratory data.

TCA

WEEK	Date	Airflow (acfm)	Approx. Sampling Interval (hr)	Cum. Hours of Operation (hr)	(lb/m ³)			(lb/hr)			(lb)	
					Pre- Carbon	Mid- Carbon	Post- Carbon	Pre- Carbon (TCA)	Mid- Carbon	Post- Carbon	Lead Carbon Unit Loading	Secondary Carbon Unit Loading
1	1/28/99	741	0.1	0.1	0	0	0	0	0	0	0	0
	2/4/99	748	163.8	163.9	0	0	0	0	0	0	0	0
2	2/4/99	739	0.1	164.0	0	0	0	0	0	0	0	0
	2/11/99	736	165.1	329.1	0	1.5E-02	0	0	4.2E-05	0	0	7.0E-03
3	2/11/99	750	0.1	329.2	0	1.8E-02	0	0	5.2E-05	0	0	5.2E-06
	2/18/99	707	167.3	496.5	2.2E-02	1.7E-02	0	5.9E-05	4.6E-05	0	2.3E-03	7.7E-03
4	2/18/99	725	0.5	497.0	0	2.6E-02	0	0	7.2E-05	0	0	3.6E-05
	2/25/99	722	121.4	618.4	8.6E-02	2.1E-02	0	2.4E-04	5.8E-05	0	2.2E-02	7.0E-03
5	2/25/99	740	0.5	618.9	8.0E-02	1.1E-02	0	2.3E-04	3.0E-05	0	9.8E-05	1.5E-05
	3/4/99	737	164.5	783.4	0	5.2E-03	/	0	1.5E-05	/	0	2.4E-03
6	3/4/99	714	0.5	783.9	6.3E-02	9.5E-03	0	1.7E-04	2.6E-05	0	7.3E-05	1.3E-05
	3/11/99	696	167.4	951.3	0	3.3E-02	0	0	8.8E-05	0	0	1.5E-02
7	3/11/99	624	0.5	951.8	1.5E-02	4.2E-02	1.6E-03	3.6E-05	1.0E-04	3.8E-06	0	4.8E-05
8	3/18/99	637	0.5	983.9	0	5.4E-02	0	0	1.3E-04	0	0	6.6E-05
	3/25/99	667	63.7	1047.6	1.6E-02	7.9E-03	0	4.1E-05	2.0E-05	0	1.3E-03	0
9	3/25/99	630	0.5	1048.1	0	1.9E-02	0	0	4.6E-05	0	0	2.3E-05
10	4/1/99	635	0.5	1171.5	1.3E-01	2.0E-02	2.2E-03	3.2E-04	4.9E-05	5.3E-06	1.4E-04	2.2E-05
	4/8/99	608	69.1	1240.6	0	3.3E-02	0	0	7.7E-05	0	0	5.3E-03
11	4/8/99	632	0.5	1241.1	0	2.6E-02	0	0	6.3E-05	0	0	3.1E-05
	4/15/99	638	169.4	1410.4	0	1.4E-02	/	0	3.4E-05	/	0	5.8E-03
12	4/15/99	648	0.5	1410.9	4.5E-02	2.0E-02	0	1.1E-04	5.0E-05	0	3.1E-05	2.5E-05
	4/22/99	627	167.5	1578.5	0	3.7E-02	0	0	8.9E-05	0	0	1.5E-02
13	4/22/99	627	0.5	1579.0	0	3.5E-02	0	0	8.4E-05	0	0	4.2E-05
	4/29/99	623	166.0	1745.0	0	7.8E-03	0	0	1.9E-05	0	0	3.1E-03
14	4/29/99	638	0.5	1745.5	0	1.1E-02	0	0	2.7E-05	0	0	1.3E-05
	5/6/99	654	0.5	1821.1	0	3.2E-02	0	0	8.0E-05	0	0	4.0E-05
15	5/13/99	641	167.7	1988.8	0	1.1E-02	0	0	2.7E-05	0	0	4.5E-03

0.026 0.074

TCA

6/23/99

LAB Carbon Loading

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PCE, TCE, TCA AND TOTAL VOC LOADING ESTIMATES USING LABORATORY DATA

Table Purpose: Calculate the loading of PCE, TCE, TCA and Total VOCs on the carbon units based on laboratory data.

WEEK	Date	Pre-Carbon Airflow (acfm)	Approx. Sampling Interval (hr)	Cum. Hours of Operation (hr)	(mg/m ³)			(lb/hr)			(lb)		(lb)		VOC Removal Efficiency (%)
					Pre-Carbon	Mid-Carbon	Post-Carbon	Pre-Carbon (TOTALS)	Mid-Carbon	Post-Carbon	Lead Carbon Unit Loading	Secondary Carbon Unit Loading	Cumulative Lead Carbon Unit Loading	Cumulative Secondary Carbon Unit Loading	
1	1/28/99	741	0.1	0.1	3.1E+01	1.4	1.3E+00	8.6E-02	4.0E-03	3.7E-03	8.2E-03	2.6E-05	0.008	0.000	95.69
	2/4/99	748	163.8	163.9	9.2	7.1E-01	1.5E-01	2.6E-02	2.0E-03	4.2E-04	4.0	2.7E-01	3.980	0.265	98.41
2	2/4/99	739	0.1	164.0	1.7E+01	9.0E-01	6.6E-02	4.9E-02	2.5E-03	1.9E-04	4.7E-03	2.3E-04	3.984	0.265	99.62
	2/11/99	736	165.1	329.1	1.3E+01	8.9E-01	5.3E-02	3.5E-02	2.5E-03	1.5E-04	5.4	3.9E-01	9.412	0.653	99.58
3	2/11/99	750	0.1	329.2	2.1E+01	8.3E-01	5.2E-02	6.1E-02	2.4E-03	1.5E-04	5.8E-03	2.2E-04	9.417	0.654	99.75
	2/18/99	707	167.3	496.5	4.5	1.3	6.1E-02	1.2E-02	3.5E-03	1.7E-04	1.5	5.5E-01	10.871	1.204	98.64
4	2/18/99	725	0.5	497.0	2.0	5.9E-01	2.8E-02	5.5E-03	1.6E-03	7.8E-05	2.0E-03	7.8E-04	10.873	1.205	98.60
	2/25/99	722	121.4	618.4	7.0	3.9E-01	3.4E-02	1.9E-02	1.1E-03	9.5E-05	2.2	1.2E-01	13.087	1.325	99.51
5	2/25/99	740	0.5	618.9	1.8E+01	4.6E-01	6.3E-02	5.1E-02	1.3E-03	1.8E-04	2.5E-02	5.6E-04	13.112	1.325	99.65
	3/4/99	737	164.5	783.4	1.0E+01	2.8E-01	/	2.9E-02	7.9E-04	/	4.6	1.3E-01	17.742	1.455	NA
6	3/4/99	714	0.5	783.9	4.2	2.9E-01	7.4E-02	1.1E-02	7.9E-04	2.0E-04	5.3E-03	2.9E-04	17.748	1.456	98.24
	3/11/99	696	167.4	951.3	5.5	5.3E-01	2.7E-02	1.5E-02	1.4E-03	7.2E-05	2.2	2.3E-01	19.976	1.681	99.51
7	3/11/99	624	0.5	951.8	3.0	5.5E-01	1.4E-01	7.3E-03	1.3E-03	3.4E-04	3.0E-03	4.9E-04	19.979	1.682	95.37
8	3/18/99	637	0.5	983.9	5.8	4.3E-01	5.4E-02	1.4E-02	1.1E-03	1.3E-04	6.5E-03	4.6E-04	19.985	1.682	99.06
	3/25/99	667	63.7	1047.6	3.3	4.1E-01	4.1E-02	8.4E-03	1.0E-03	1.0E-04	4.7E-01	5.9E-02	20.454	1.741	98.75
9	3/25/99	630	0.5	1048.1	9.6	2.1E-01	3.3E-02	2.3E-02	5.1E-04	7.9E-05	1.1E-02	2.2E-04	20.466	1.742	99.66
10	4/1/99	635	0.5	1171.5	1.4E+01	5.3E-01	1.3E-01	3.4E-02	1.3E-03	3.2E-04	1.6E-02	4.8E-04	20.482	1.742	99.06
	4/8/99	608	69.1	1240.6	7.9	1.4	2.6E-01	1.8E-02	3.2E-03	6.1E-04	1.0	1.8E-01	21.529	1.921	96.68
11	4/8/99	632	0.5	1241.1	6.8	6.0E-01	1.0E-01	1.6E-02	1.5E-03	2.4E-04	7.5E-03	6.1E-04	21.537	1.921	98.51
	4/15/99	638	169.4	1410.4	3.3	4.6E-01	/	8.0E-03	1.1E-03	/	1.2	1.9E-01	22.697	2.113	NA
12	4/15/99	648	0.5	1410.9	1.1E+01	2.1E-01	1.2E-01	2.7E-02	5.2E-04	2.9E-04	1.3E-02	1.2E-04	22.710	2.113	98.94
	4/22/99	627	167.5	1578.5	4.1	2.7E-01	5.2E-02	9.8E-03	6.4E-04	1.3E-04	1.5	8.6E-02	24.242	2.199	98.72
13	4/22/99	627	0.5	1579.0	3.1	3.7E-01	4.1E-02	7.3E-03	9.0E-04	9.9E-05	3.2E-03	4.0E-04	24.245	2.199	98.66
	4/29/99	623	166.0	1745.0	1.9	2.4E-01	1.0E-01	4.5E-03	5.6E-04	2.4E-04	6.6E-01	5.3E-02	24.903	2.252	94.66
14	4/29/99	638	0.5	1745.5	2.4	8.1E-02	1.9E-02	5.8E-03	2.0E-04	4.8E-05	2.8E-03	7.5E-05	24.906	2.253	99.18
15	5/6/99	654	0.5	1821.1	9.1	3.1E-01	1.1E-01	2.3E-02	7.9E-04	2.8E-04	1.1E-02	2.5E-04	24.917	2.253	98.77
	5/13/99	641	167.7	1988.8	4.4	1.2E-01	3.8E-02	1.1E-02	2.9E-04	9.4E-05	1.7	3.3E-02	26.659	2.286	99.12
Average Loading Rate:								2.3E-02			26.659	2.286	Average Removal Efficiency =		98.49
								Average Discharge Rate:		3.1E-04					

- Highlights:
- Approximately 26 lbs of PCE was loaded onto the carbon units during Weeks 1 - 15.
 - Approximately 0.5 lbs of TCE was loaded onto the carbon units during Weeks 1 - 15.
 - Approximately 0.1 lbs of TCA was loaded onto the carbon units during Weeks 1 - 15.
 - Approximately 29 lbs of Total VOCs was loaded onto the carbon units during Weeks 1 - 15.
 - Approximately 88 % of the Total VOCs adsorbed by the carbon units is PCE.
 - The discharge emissions criteria of 0.01 lb/hr for PCE and 0.22 lb/hr for Total VOCs was never exceeded.

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

TOTAL VOC LOADING ESTIMATES USING PID FIELD SCREENING DATA

Table Purpose: Estimate the total VOC loading on the carbon in Unit 1 based on PID field screening data.

	Date	Airflow Rate (acfm)	Hours of Operation at Airflow (hrs)	ppm equivalents			lb/hr			lbs		
				Pre- Carbon PID	Mid- Carbon PID	Post- Carbon PID	Pre- Carbon Loading Rate	Mid- Carbon Loading Rate	Post- Carbon Loading Rate	Pre- Carbon Loading	Mid- Carbon Loading	Post- Carbon Loading
WEEK 1	1/28/99	741	0.10	5.7	1.9	0.0	1.2E-01	3.9E-02	0.0	1.2E-02	3.9E-03	0.0
	1/28/99	741	0.40	4.6	0.0	0.0	9.4E-02	0.0	0.0	3.8E-02	0.0	0.0
	1/28/99	741	0.50	4.6	0.0	0.0	9.4E-02	0.0	0.0	4.7E-02	0.0	0.0
	1/28/99	740	3.00	4.6	0.0	0.0	9.4E-02	0.0	0.0	2.8E-01	0.0	0.0
	1/28/99	740	3.70	4.6	0.0	0.0	9.4E-02	0.0	0.0	3.5E-01	0.0	0.0
	1/29/99	728	14.90	4.6	0.0	0.0	9.3E-02	0.0	0.0	1.4	0.0	0.0
	2/4/99	748	141.30	2.2	0.0	0.0	4.6E-02	0.0	0.0	6.4	0.0	0.0
WEEK 2	2/4/99	739	0.10	6.7	0.0	0.0	1.4E-01	0.0	0.0	1.4E-02	0.0	0.0
	2/4/99	739	0.40	8.9	0.0	0.0	1.8E-01	0.0	0.0	7.3E-02	0.0	0.0
	2/4/99	739	0.50	8.9	0.0	0.0	1.8E-01	0.0	0.0	9.1E-02	0.0	0.0
	2/4/99	739	1.00	8.9	0.0	0.0	1.8E-01	0.0	0.0	1.8E-01	0.0	0.0
	2/4/99	721	2.00	4.4	0.0	0.0	8.8E-02	0.0	0.0	1.8E-01	0.0	0.0
	2/4/99	721	4.00	4.4	0.0	0.0	8.8E-02	0.0	0.0	3.5E-01	0.0	0.0
	2/5/99	720	15.00	4.4	0.0	0.0	8.8E-02	0.0	0.0	1.3	0.0	0.0
	2/11/99	736	142.10	2.4	0.0	0.0	4.9E-02	0.0	0.0	7.0	0.0	0.0
WEEK 3	2/11/99	750	0.10	2.4	0.0	0.0	5.0E-02	0.0	0.0	5.0E-03	0.0	0.0
	2/11/99	750	0.40	4.8	0.0	0.0	1.0E-01	0.0	0.0	4.0E-02	0.0	0.0
	2/11/99	750	0.50	2.4	2.4	0.0	5.0E-02	5.0E-02	0.0	2.5E-02	2.5E-02	0.0
	2/11/99	750	1.00	2.4	0.0	0.0	5.0E-02	0.0	0.0	5.0E-02	0.0	0.0
	2/11/99	723	2.00	2.4	0.0	0.0	4.8E-02	0.0	0.0	9.6E-02	0.0	0.0
	2/11/99	723	4.00	2.1	0.0	0.0	4.2E-02	0.0	0.0	1.7E-01	0.0	0.0
	2/12/99	731	15.20	2.1	0.0	0.0	4.3E-02	0.0	0.0	6.5E-01	0.0	0.0
	2/18/99	707	167.30	2.5	0.0	0.0	4.9E-02	0.0	0.0	8.2	0.0	0.0
WEEK 4	2/18/99	725	0.50	2.5	0.0	0.0	5.0E-02	0.0	0.0	2.5E-02	0.0	0.0
	2/18/99	725	2.00	2.5	0.0	0.0	5.0E-02	0.0	0.0	1.0E-01	0.0	0.0
	2/18/99	725	8.00	2.5	0.0	0.0	5.0E-02	0.0	0.0	4.0E-01	0.0	0.0
	2/25/99	722	121.40	2.0	0.0	0.0	4.0E-02	0.0	0.0	4.9	0.0	0.0
WEEK 5	2/25/99	740	0.50	2.0	0.0	0.0	4.1E-02	0.0	0.0	2.0E-02	0.0	0.0
	2/25/99	740	1.50	2.0	0.0	0.0	4.1E-02	0.0	0.0	6.1E-02	0.0	0.0
	2/25/99	729	6.00	2.0	0.0	0.0	4.0E-02	0.0	0.0	2.4E-01	0.0	0.0
	3/4/99	737	156.97	2.0	0.0	0.0	4.1E-02	0.0	0.0	6.4	0.0	0.0
WEEK 6	3/4/99	714	0.50	2.0	0.0	0.0	4.0E-02	0.0	0.0	2.0E-02	0.0	0.0
	3/4/99	714	1.50	2.0	0.0	0.0	4.0E-02	0.0	0.0	5.9E-02	0.0	0.0
	3/4/99	711	6.00	2.0	0.0	0.0	3.9E-02	0.0	0.0	2.4E-01	0.0	0.0
	3/11/99	696	159.68	0.0	0.3	0.0	0.0	5.8E-03	0.0	0.0	9.2E-01	0.0

TOTAL VOC LOADING ESTIMATES USING PID FIELD SCREENING DATA

Table Purpose: Estimate the total VOC loading on the carbon in Unit 1 based on PID field screening data.

	Date	Airflow Rate (acfm)	Hours of Operation at Airflow (hrs)	ppm equivalents			lb/hr			lbs		
				Pre- Carbon PID	Mid- Carbon PID	Post- Carbon PID	Pre- Carbon Loading Rate	Mid- Carbon Loading Rate	Post- Carbon Loading Rate	Pre- Carbon Loading	Mid- Carbon Loading	Post- Carbon Loading
WEEK 7	3/11/99	624	0.50	0.6	0.3	0.0	1.0E-02	5.2E-03	0.0	5.2E-03	2.6E-03	0.0
	3/11/99	624	1.50	0.8	0.5	0.0	1.4E-02	8.6E-03	0.0	2.1E-02	1.3E-02	0.0
	3/11/99	613	6.00	0.8	0.3	0.0	1.4E-02	5.1E-03	0.0	8.1E-02	3.1E-02	0.0
WEEK 8	3/18/99	642	0.50	2.5	0.3	0.0	4.4E-02	5.3E-03	0.0	2.2E-02	2.7E-03	0.0
	3/18/99	637	1.50	3.4	0.5	0.0	6.0E-02	8.8E-03	0.0	9.0E-02	1.3E-02	0.0
	3/18/99	635	4.00	2.3	0.3	0.0	4.0E-02	5.3E-03	0.0	1.6E-01	2.1E-02	0.0
	3/25/99	667	58.23	1.5	0.0	0.0	2.8E-02	0.0	0.0	1.6	0.0	0.0
WEEK 9	3/25/99	630	0.50	1.7	0.0	0.0	3.0E-02	0.0	0.0	1.5E-02	0.0	0.0
	3/25/99	631	2.00	2.2	0.0	0.0	3.8E-02	0.0	0.0	7.7E-02	0.0	0.0
	3/25/99	632	123.38	2.3	0.4	0.0	4.0E-02	7.0E-03	0.0	5.0	8.6E-01	0.0
WEEK 10	4/1/99	635	0.50	3.0	0.4	0.0	5.3E-02	7.0E-03	0.0	2.6E-02	3.5E-03	0.0
	4/1/99	636	2.00	2.6	0.1	0.0	4.6E-02	1.8E-03	0.0	9.2E-02	3.5E-03	0.0
	4/1/99	626	4.00	2.4	0.5	0.0	4.2E-02	8.7E-03	0.0	1.7E-01	3.5E-02	0.0
	4/8/99	608	63.62	3.2	0.0	0.0	5.4E-02	0.0	0.0	3.4	0.0	0.0
WEEK 11	4/8/99	632	0.50	3.2	0.0	0.0	5.6E-02	0.0	0.0	2.8E-02	0.0	0.0
	4/8/99	644	2.00	3.2	0.0	0.0	5.7E-02	0.0	0.0	1.1E-01	0.0	0.0
	4/8/99	645	4.00	3.2	0.0	0.0	5.7E-02	0.0	0.0	2.3E-01	0.0	0.0
	4/15/99	638	163.85	3.1	1.0	0.0	5.5E-02	1.8E-02	0.0	9.0	2.9	0.0
WEEK 12	4/15/99	648	0.50	3.1	1.0	0.0	5.6E-02	1.8E-02	0.0	2.8E-02	9.0E-03	0.0
	4/15/99	649	2.00	2.2	0.0	0.0	4.0E-02	0.0	0.0	7.9E-02	0.0	0.0
	4/15/99	647	4.00	3.1	0.0	0.0	5.6E-02	0.0	0.0	2.2E-01	0.0	0.0
	4/22/99	627	162.02	2.1	0.0	0.0	3.6E-02	0.0	0.0	5.9	0.0	0.0
WEEK 13	4/22/99	627	0.50	2.0	0.0	0.0	3.5E-02	0.0	0.0	1.7E-02	0.0	0.0
	4/22/99	622	2.00	1.0	0.0	0.0	1.7E-02	0.0	0.0	3.4E-02	0.0	0.0
	4/22/99	622	4.00	1.0	0.0	0.0	1.7E-02	0.0	0.0	6.9E-02	0.0	0.0
	4/29/99	623	160.50	1.0	0.0	0.0	1.7E-02	0.0	0.0	2.8	0.0	0.0
WEEK 14	4/29/99	638	0.50	1.0	0.0	0.0	1.8E-02	0.0	0.0	8.8E-03	0.0	0.0
	4/29/99	646	2.00	1.0	0.0	0.0	1.8E-02	0.0	0.0	3.6E-02	0.0	0.0
	4/29/99	637	73.62	1.0	0.0	0.0	1.8E-02	0.0	0.0	1.3E+00	0.0	0.0
WEEK 15	5/6/99	654	0.50	1.1	0.0	0.0	2.0E-02	0.0	0.0	1.0E-02	0.0	0.0
	5/6/99	655	2.00	1.1	0.0	0.0	2.0E-02	0.0	0.0	4.0E-02	0.0	0.0
	5/6/99	649	4.00	1.1	0.0	0.0	2.0E-02	0.0	0.0	7.9E-02	0.0	0.0
	5/13/99	641	162.22	1.1	1.1	0.0	2.0E-02	2.0E-02	0.0	3.2	3.2	0.0

Notes:

The airflow rate used for these calculations was the pre-carbon calculated airflow.

The calculated emissions assumes PCE is the only contaminant.

Molecular weight of PCE 165.83 g/mole

The approximate quantity of contaminant loaded onto the lead carbon unit.

estimate using PID data = **65 lbs**

The approximate quantity of contaminant loaded onto the secondary carbon unit.

estimated using PID data = **8 lbs**

Total VOCs Removed = **73 lbs**

6/23/99

PID Carbon Loading

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**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

SUMMARY OF VACUUM GAUGE READINGS AT VAPOR POINTS, INCHES OF W.C.

Table Purpose: Summary of well head vacuum measured at vapor point wells.

Well Number	WEEK 1			WEEK 2			WEEK 3			WEEK 4
	1/28/99	1/29/99	2/4/99	2/4/99	2/5/99	2/11/99	2/11/99	2/12/99	2/18/99	2/25/99
VP -1	0.4	0.4	0.4	1.15	1.1	1	0.85	0.9	0.95	0.45
VP - 2	0.35	0.3	0.4	0.7	0.7	0.6	1.4	1.6	1.5	0.45
VP - 3	0.9	0.65	0.75	0.5	0.45	0.45	1.4	1.65	1.5	0.8
VP - 5	0.01	0	0	0.05	0.05	0	0	0	0	0
VP - 6	0	0	0	0	0	0	0	0	0	0
VP - 7	0	0	0	0	0	0	0	0	0	0
VP - 8	0	0	0	0	0	0	0	0	0	0
VP - 9	0.55	0.5	0.55	0.55	0.5	0.35	0.45	0.5	0.5	0.53
VP - 10	0.22	0.2	0.23	0.3	0.3	0.19	0.09	0.1	0.1	0.21
VP - 11	0.7	0.7	0.85	1.25	1.35	1.05	0.24	0.25	0.25	0.9

6/25/99

Vapor Point - Vacuum

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SUMMARY OF VACUUM GAUGE READINGS AT VAPOR POINTS, INCHES OF W.C.

Table Purpose: Summary of well head vacuum measured at vapor point wells.

	WEEK 5	WEEK 6	WEEK 8 *		WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13	WEEK 14
Well Number	3/4/99	3/11/99	3/18/99	3/25/99	3/25/99	4/1/99	4/8/99	4/15/99	4/22/99	4/29/99
VP - 1	1.16	0.85	0.6	0.35	1.05	0.8	0.5	0.95	0.75	0.4
VP - 2	0.7	1.4	0.55	0.25	0.65	1.35	0.4	0.6	1.3	0.45
VP - 3	0.5	1.4	0.9	0.55	0.45	1.3	1.0	0.4	1.2	0.8
VP - 5	0.06	0.0	0.0	0.0	0.025	0.0	0.0	0.02	0.0	0.0
VP - 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VP - 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VP - 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VP - 9	0.6	0.4	0.6	0.45	0.5	0.3	1.65	0.45	0.2	0.5
VP - 10	0.3	0.08	0.35	0.21	0.3	0.05	0.3	0.3	0.06	0.19
VP - 11	1.2	0.23	1.05	0.65	1.2	0.2	0.9	1.1	0.15	0.9

* Vapor point well head vacuum was measured twice during Week 8 for the two dilution settings.
Vapor point well head vacuum was not measured due to an alarm condition shut-down.

6/25/99

Vapor Point - Vacuum

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**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

SUMMARY OF VACUUM GAUGE READINGS AT SVE WELLS. INCHES OF W.C.

Table Purpose: Summary of well head vacuum measured at SVE wells.

Well Number	WEEK 1			WEEK 2			WEEK 3			WEEK 4
	1/28/99	1/29/99	2/4/99	2/4/99	2/5/99	2/11/99	2/11/99	2/12/99	2/18/99	2/25/99
1	0	0	0	0	0	0	0	0	0	0
2	0.14	0.13	0.15	0.21	0.2	0.165	0.03	0.04	0.05	0.14
3	0	0	0	0	0	0	0	0	0	0
4	0.07	0.07	0.08	0.08	0.07	0.05	0.06	0.07	0.08	0.04
5	0.5	0.45	0.55	0.65	0.7	0.5	0.3	0.4	0.4	0.5
6	27	29	29	5.5	4.6	4.4	1.1	1.25	1.25	28
7	2.4	2.4	2.4	3.4	3.4	3	1.95	2	2.1	2.8
8	31	33	30	1.65	1.7	0.55	4	4.2	4.2	29
9	3.4	3.3	3.5	32	33	32	0.95	1	1	2
10	3.8	3	3	4.2	4	3.7	2.1	2.2	2.2	4
11	1.6	1.95	2	30	31	30	3.5	3.6	3.6	2
12	2.2	2	2	5.4	5	4.8	1.9	2	2.1	2.4
13	0.9	0.85	0.95	2.4	2.2	2.2	34	35	36	1
14	2.6	2.6	2.6	1.85	1.85	1.65	35	36	37	3.2
15	0.6	0.6	0.6	1.3	1.25	1.05	2.9	2.9	3.1	0.65

SUMMARY OF VACUUM GAUGE READINGS AT SVE WELLS. INCHES OF W.C.

Table Purpose: Summary of well head vacuum measured at SVE wells.

Well Number	WEEK 5	WEEK 6	WEEK 8		WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13	WEEK 14	WEEK 15
	3/4/99	3/11/99	3/18/99	3/25/99	3/25/99	4/1/99	4/8/99	4/15/99	4/22/99	4/29/99	5/6/99
1	0	0	0	0	0	0	0	0	0	0	0
2	0.2	0.03	0.15	0.13	0.19	0.01	0.17	0.18	0.01	0.1	0.09
3	0	0	0	0	0	0	0	0	0	0	0
4	0.07	0.5	0.06	0.09	0.09	0.03	0.11	0.07	0.04	0.05	0.01
5	0.7	0.3	0.55	0	0.6	0.1	0.7	0.55	0.1	0.5	0.4
6	5.4	1.05	31	19.5	4.4	1	27.5	4.1	0.95	27	5.2
7	3.4	1.9	3.2	1.95	3	1.85	3	2.6	1.85	2.8	2.9
8	1.6	4	32	22.5	1.65	3.9	32	1.5	3.85	29	1.2
9	32	0.9	4.8	2.5	33	0.85	4.5	31	0.9	1.9	27
10	4.2	2	4.1	2.2	3.5	1.95	3.9	3.3	2	4	3.9
11	30	3.4	2.4	1.55	31	3.3	2.1	30	3.2	2	26.5
12	5.4	1.85	2.9	1.8	4.8	1.8	2.8	4.6	1.7	3	4.8
13	2.4	33	1.2	0.65	2	31	1.05	1.85	30.5	1.1	2.1
14	1.9	34	3.6	2	1.75	31	3.2	1.7	31	3.2	1.2
15	1.3	2.9	0.85	0.45	1.1	2.7	0.65	0.9	2.65	0.6	1.2

- Highlights:
- Vacuum measured at SVE well 6 was 19.5" of w.c. and SVE well 8 was 22.5" of w.c. after the dilution valve was opened on 3/22/99.
 - Vacuum measured at SVE well 6 ranged from 27 to 31" of w.c. during active withdrawal except on 3/25/99 during Week 8 when vacuum was decreased to 19.5" of w.c. to reduced the withdrawal of water from the subsurface.
 - Vacuum measured at SVE well 8 ranged from 29 to 33" of w.c. during active withdrawal except on 3/25/99 during Week 8 when vacuum was decreased to 22.5" of w.c. to reduced the withdrawal of water from the subsurface.
 - Vacuum measured at SVE well 9 ranged from 27 to 33" of w.c. during active withdrawal.
 - Vacuum measured at SVE well 11 ranged from 26.5 to 31" of w.c. during active withdrawal.
 - Vacuum measured at SVE well 13 ranged from 30.5 to 36" of w.c. during active withdrawal.
 - Vacuum measured at SVE well 14 ranged from 31 to 37" of w.c. during active withdrawal.
 - Well head vacuum was measured twice during Week 8 due to the increase in dilution air on 3/22/99.
 - Well head vacuum was not measured during Week 7 due to an alarm condition shut-down.

6/25/99

SVE Well - Vacuum

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SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

SUMMARY OF VACUUM GAUGE READINGS AT MONITOR WELLS, INCHES OF W.C.

Table Purpose: Summary of well head vacuum measured at monitor wells.

Well Number	WEEK 1			WEEK 2			WEEK 3			WEEK 4
	1/28/99	1/29/99	2/4/99	2/4/99	2/5/99	2/11/99	2/11/99	2/12/99	2/18/99	2/25/99
MW-28B	-	-	-	-	-	-	-	-	-	-
MW-45A	1.85	1.6	1.7	1.8	1.8	1.6	1.2	1.25	1.25	1.95
MW-45B	-	-	-	-	-	-	-	-	-	-
MW-51A	-	-	-	-	-	-	-	-	-	-
MW-52A	-	-	-	-	-	-	-	-	-	-
MW-98-01A	1.15	0.85	0.9	0.75	0.8	0.75	2.0	2.1	2.1	1.1
MW-98-01B	-	-	-	-	-	-	-	-	-	-
MW-98-02A	1.15	0.8	0.85	0.55	0.5	0.45	1.35	1.35	1.45	1.15
MW-98-02B	-	-	-	-	-	-	-	-	-	-
MW-98-3A	0.85	0.75	0.75	1.5	1.4	1.2	2.0	2.0	2.05	0.85
MW-98-04	1.3	1.2	1.15	2.4	2.0	2.0	0.8	0.8	0.9	1.3
MW-98-05A	-	-	-	-	-	-	-	-	-	-
MW-98-05B	2.6	2.2	2.4	2.6	2.5	2.4	2.4	2.5	2.5	3.0
MW-98-06A	0.35	0.25	0.3	0.5	0.45	0.4	0.85	0.9	0.95	0.3
MW-98-06B	-	-	-	-	-	-	-	-	-	-
MW-98-07	0.19	0.22	0.17	0.5	0.4	0.4	0.45	0.5	0.55	0.2
MW-98-08	0.12	0.16	0.12	0.25	0.3	0.24	0.35	0.4	0.4	0.13

6/25/99

Monitor Well - Vacuum

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SUMMARY OF VACUUM GAUGE READINGS AT MONITOR WELLS, INCHES OF W.C.

Table Purpose: Summary of well head vacuum measured at monitor wells.

Well Number	WEEK 5	WEEK 6	WEEK 8		WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13	WEEK 14	WEEK 15
	3/4/99	3/11/99	3/18/99	3/25/99	3/25/99	4/1/99	4/8/99	4/15/99	4/22/99	4/29/99	5/6/99
MW-28B	-	-	-	-	-	-	-	-	-	-	-
MW-45A	1.8	1.2	1.6	1.35	0.7	1.2	2.0	0.65	1.2	1.8	1.8
MW-45B	-	-	-	-	-	-	-	-	-	-	-
MW-51A	-	-	-	-	-	-	-	-	-	-	-
MW-52A	-	-	-	-	-	-	-	-	-	-	-
MW-98-01A	0.8	2.0	1.35	0.7	0.8	1.9	1.2	0.7	1.85	1.05	0.7
MW-98-01B	-	-	-	-	-	-	-	-	-	-	-
MW-98-02A	0.6	1.3	1.4	0.7	0.5	1.25	1.25	0.45	1.25	1.1	0.5
MW-98-02B	-	-	-	-	-	-	-	-	-	-	-
MW-98-3A	1.5	2.0	0.9	0.6	1.3	1.9	0.9	1.2	1.85	0.8	1.3
MW-98-04	2.4	0.8	1.0	0.9	2.0	0.7	1.25	1.9	0.7	1.3	2.25
MW-98-05A	-	-	-	-	-	-	-	-	-	-	-
MW-98-05B	2.6	2.35	3.2	2.0	2.1	2.2	3.0	2.05	2.2	2.9	2.5
MW-98-06A	0.55	0.8	0.45	0.24	0.45	0.7	0.35	0.4	0.7	0.25	0.5
MW-98-06B	-	-	-	-	-	-	-	-	-	-	-
MW-98-07	0.5	0.5	0.35	0.15	0.45	0.4	0.25	0.4	0.35	0.2	0.45
MW-98-08	0.3	0.3	0.18	0.09	0.23	0.2	0.13	0.2	0.2	0.12	0.3

- Highlights:
- Vacuum at monitor wells measured only if the well is screened above the water table.
 - Well head vacuum was measured twice during Week 8 due to the increase in dilution air on 3/22/99.
 - Well head vacuum was not measured during Week 7 due to an alarm condition shutdown.

6/25/99

Monitor Well - Vacuum

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SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

SUMMARY OF PRESSURE AND VACUUM GAUGE READINGS, INCHES OF W.C.

Table Purpose: Summarize measured vacuum at blower inlets and pressure at blower outlets and inlets of carbon units.

		pressure	pressure	vacuum	pressure	vacuum	pressure
	Date	Pre-Carbon	Mid-Carbon	20 HP Blower Inlet	20 HP Blower Outlet	3 HP Blower Inlet	3 HP Blower Outlet
WEEK 1	1/28/99	22.5	10	36	41	12	40
	1/28/99	22	10	36	40	12	40.5
	1/29/99	22	10	36.5	41	12	40
	2/4/99	22.5	10	37	40	11.5	39
WEEK 2	2/4/99	21.5	9.5	38	38.5	22.5	37.5
	2/4/99	21	9	40	37.5	22.5	37
	2/5/99	21	9	39.5	37.5	23.5	37
	2/11/99	21.5	9.5	38	38	23.5	37.5
WEEK 3	2/11/99	22	9.5	41	38.5	12	38
	2/11/99	21	9	44	37.5	12	37
	2/12/99	21	9	44	37.5	11.5	37
	2/18/99	21	9	43.5	37	11.5	36
WEEK 4	2/18/99	22	9.5	38	38.5	11	38
	2/25/99	22.5	10	38	40	11	39
WEEK 5	2/25/99	23		34	41.5	10	40
	2/25/99	23		34.5	41	10	40
	2/25/99	23	10	35	41	9.5	39
	3/4/99	22	9.5	38	39	10	37
WEEK 6	3/4/99	21.5	9	37.5	37.5	22.5	36
	3/4/99	21.5	9.5	38	38	22.5	36
	3/4/99	21.5	9	38.5	37.5	23	36
	3/11/99	21	9	40	37	23.5	35
WEEK 7	3/11/99	17.5	7	39	30	0	0
	3/11/99	17	7	41	29	0	0
WEEK 8	3/18/99	18	7	41.5	30	0	0
	3/18/99	17.5	7	44	29	0	0
	3/18/99	17	6.5	44	29	0	0
	3/25/99	20	8.5	26	34	0	0

SUMMARY OF PRESSURE AND VACUUM GAUGE READINGS, INCHES OF W.C.

Table Purpose: Summarize measured vacuum at blower inlets and pressure at blower outlets and inlets of carbon units.

		pressure	pressure	vacuum	pressure	vacuum	pressure
	Date	Pre-Carbon	Mid-Carbon	20 HP Blower Inlet	20 HP Blower Outlet	3 HP Blower Inlet	3 HP Blower Outlet
WEEK 9	3/25/99	18.5	7.5	40	31	0	0
	3/25/99	17.5	7	41	30	0	0
	3/25/99	17.5	7	42	30	0	0
WEEK 10	4/1/99	17.5	7	41	30	0	0
	4/1/99	17.5	7	41	30	0	0
	4/1/99	17.5	7	41.5	30.5	0	0
	4/8/99	17.5	7	42.5	29	0	0
WEEK 11	4/8/99	18	7.25	39	30	0	0
	4/8/99	18	7.25	39	30	0	0
	4/8/99	17.5	7	40	30	0	0
	4/15/99	17.5	7	41	30.5	0	0
WEEK 12	4/15/99	18.5	7.5	36.5	31	0	0
	4/15/99	18.5	7.5	37.5	31	0	0
	4/15/99	18	7.25	38.5	30	0	0
	4/22/99	18	7.25	40	30	0	0
WEEK 13	4/22/99	18	7.25	40	30	0	0
	4/22/99	18	7.25	40	30	0	0
	4/22/99	17.75	7	40.5	30.5	0	0
	4/29/99	17.75	7	42.25	29.5	0	0
WEEK 14	4/29/99	18.5	7.5	39	30.5	0	0
	4/29/99	18.25	7.25	39	30.5	0	0
	4/29/99	18.25	7.25	40	30.5	0	0
WEEK 15	5/6/99	19	7.75	35.5	32	0	0
	5/6/99	19	7.75	35.5	31.75	0	0
	5/6/99	19	7.75	36.5	31	0	0
	5/13/99	18.25	7.5	38	30.5	0	0

- Highlights:
- Increase in vacuum in the SI Manifold during Week 2 and Week 6 operation is the result of operating the Middle manifold in the SI.
 - Pressure measured at the outlet of the 20-hp blower, Pre-Carbon, and Mid-Carbon locations decreased when the 3-hp SI blower was shut-down.
 - Vacuum at the inlet of the 20-hp blower, measured during Week 8 on 3/25/99, decreased due to opening the dilution valve on the 20-hp blower on 3/22/99.
 - Blank cells indicate that the pressure or vacuum was not measured.

**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

TEMPERATURE SUMMARY (degrees F)

Table Purpose: Summarize airstream and ambient temperatures.

	Date	Manifold A	Manifold B	Manifold C	Manifold D	Manifold E	SI Manifold	Pre-Heat Ex	Pre-Carbon	Mid-Carbon	Post-Carbon	Ambient
WEEK 1	1/28/99	0	38	40	0	0	40	123	40	46	46	39
	1/28/99	0	38	40	0	0	40	125	40	44	44	35
	1/29/99	0	38	40	0	0	38	124	38	42	42	32
	2/4/99	0	36	38	0	0	36	128	50	46	46	41
WEEK 2	2/4/99	42	37	0	0	0	40	128	54	52	52	48
	2/4/99	46	37	0	0	0	40	131	52	50	50	46
	2/5/99	42	38	0	0	0	40	130	43	44	44	39
	2/11/99	42	37	0	0	0	39	128	49	46	46	39
WEEK 3	2/11/99	42	0	40	0	0	39	128	49	46	46	39
	2/11/99	42	0	40	0	0	38	130	53	50	50	46
	2/12/99	42	0	40	0	0	40	134	58	50	50	50
	2/18/99	42	0	40	0	0	40	140	48	49	49	41
WEEK 4	2/18/99	0	37	40	0	0	41	136	49	46	46	39
	2/25/99	0	36	38	0	0	36	123	36	38	38	33
WEEK 5	2/25/99	40	36	0	0	0	36	-	-	-	-	-
	2/25/99	40	36	0	0	0	36	-	-	-	-	-
	2/25/99	40	36	0	0	0	36	121	38	38	38	31
	3/4/99	40	36	0	0	0	40	128	50	50	50	42
WEEK 6	3/4/99	41	0	38	0	0	40	127	50	50	50	42
	3/4/99	41	0	39	0	0	50	127	49	50	50	40
	3/4/99	41	0	39	0	0	39	126	45	45	46	36
	3/11/99	40	0	38	0	0	38	130	40	40	40	32
WEEK 7	3/11/99	0	36	38	0	0	0	125	44	42	45	36
	3/11/99	0	35	38	0	0	0	130	46	42	46	36
WEEK 8	3/18/99	0	37	38	0	0	0	135	72	60	60	62
	3/18/99	0	38	38	0	0	0	138	64	54	54	62
	3/18/99	0	38	38	0	0	0	136	62	53	53	56
	3/25/99	0	37	40	0	0	0	120	50	50	50	43

TEMPERATURE SUMMARY (degrees F)

Table Purpose: Summarize airstream and ambient temperatures.

	Date	Manifold A	Manifold B	Manifold C	Manifold D	Manifold E	SI Manifold	Pre-Heat Ex	Pre-Carbon	Mid-Carbon	Post-Carbon	Ambient
WEEK 9	3/25/99	42	38	0	0	0	0	127	52	52	52	46
	3/25/99	42	37	0	0	0	0	132	54	52	54	47
	3/25/99	44	38	0	0	0	0	136	56	52	52	50
WEEK 10	4/1/99	45	0	42	0	0	0	131	61	56	56	55
	4/1/99	45	0	42	0	0	0	135	63	57	57	58
	4/1/99	46	0	43	0	0	0	140	68	60	60	59
	4/8/99	47	0	45	0	0	0	137	60	59	58	51
WEEK 11	4/8/99	0	41	45	0	0	0	135	66	63	61	56
	4/8/99	0	41	45	0	0	0	138	76	68	68	66
	4/8/99	0	41	45	0	0	0	140	77	69	70	68
	4/15/99	0	41	46	0	0	0	137	66	63	64	60
WEEK 12	4/15/99	48	44	0	0	0	0	135	70	66	68	61
	4/15/99	48	44	0	0	0	0	136	72	66	68	62
	4/15/99	48	43	0	0	0	0	136	70	64	65	61
	4/22/99	49	44	0	0	0	0	136	58	58	58	51
WEEK 13	4/22/99	49	0	47.5	0	0	0	136	58	57	58	51
	4/22/99	49	0	47	0	0	0	136	61	59	60	54
	4/22/99	49	0	47	0	0	0	136	61	59	60	54
	4/29/99	50	0	48	0	0	0	139	62	62	63	58
WEEK 14	4/29/99	0	44.5	49	0	0	0	137	64	66	65	59
	4/29/99	0	44	49	0	0	0	136	68	66	68	61
	4/29/99	0	44	49	0	0	0	137	64	65	67	61
WEEK 15	5/6/99	55	49	0	0	0	0	136	70	66	65	63
	5/6/99	54	49	0	0	0	0	138	71	69	69	65
	5/6/99	54	49	0	0	0	0	138	72	69	69	64
	5/13/99	53	50	0	0	0	0	139	70	67	68	62

- Highlights:
- Heat exchanger effectively reduced airstream temperature from Pre-Heat Exchanger to Pre-Carbon location from between 120 and 140°F to between 36 and 72°F.
 - Ambient temperature during daytime O&M activities ranged between 31 and 68°F.
 - Subsurface air temperature ranged between 35 and 55°F.
 - Soil Impoundment air temperatures ranged between 36 and 50°F.
 - Operation of the blower raised airstream temperature approximately 90°F.

SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK

AIRFLOW CALCULATIONS

Table Purpose: Calculate airflows in the individual manifolds, blowers, and at the Pre-Carbon location.

Scenario	Date	Manifold A (FM 3)						Manifold B (FM 4)						Manifold C (FM 2)					
		Air Temp. T _i (deg F)	Gage Pressure / Vacuum P _i (" of W.C.)	Vapor Diff. Pressure P _v (" of W.C.)	Absolute Well Head Vacuum P _a (psia)	Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)	Air Temp. T _i (deg F)	Gage Pressure / Vacuum P _i (" of W.C.)	Vapor Diff. Pressure P _v (" of W.C.)	Absolute Well Head Vacuum P _a (psia)	Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)	Air Temp. T _i (deg F)	Gage Pressure / Vacuum P _i (" of W.C.)	Vapor Diff. Pressure P _v (" of W.C.)	Absolute Well Head Vacuum P _a (psia)	Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)
WEEK 1	1/28/99	0	0.0	0.0	14.73	0	0	38.0	34.0	7.8	13.50	205	214	40.0	37.0	4.0	13.39	146	154
	1/28/99	0	0.0	0.0	14.73	0	0	38.0	36.0	8.4	13.43	212	223	40.0	38.0	3.5	13.36	136	144
	1/29/99	0	0.0	0.0	14.73	0	0	38.0	36.0	8.8	13.43	217	228	40.0	38.0	3.5	13.36	136	144
	2/4/99	0	0.0	0.0	14.73	0	0	36.0	37.0	9.0	13.39	220	230	38.0	38.0	3.0	13.36	126	133
WEEK 2	2/4/99	42	36.5	6.0	13.41	178	189	37.0	37.0	9.5	13.39	225	237	0.0	0.0	0.0	14.73	0	0
	2/4/99	46	38.5	6.0	13.34	177	190	37.0	39.5	8.9	13.30	217	230	0.0	0.0	0.0	14.73	0	0
	2/5/99	42	38.0	6.4	13.36	184	196	38.0	38.0	8.9	13.36	218	230	0.0	0.0	0.0	14.73	0	0
	2/11/99	42	37.5	6.2	13.38	181	193	37.0	38.0	9.6	13.36	226	239	0.0	0.0	0.0	14.73	0	0
WEEK 3	2/11/99	42	40.0	9.4	13.29	222	238	0.0	0.0	0.0	14.73	0	0	40.0	43.0	8.0	13.18	205	220
	2/11/99	42	43.5	9.2	13.16	219	236	0.0	0.0	0.0	14.73	0	0	40.0	46.0	7.0	13.07	191	207
	2/12/99	42	43.5	9.1	13.16	218	235	0.0	0.0	0.0	14.73	0	0	40.0	46.0	7.0	13.07	191	207
	2/18/99	42	43.0	9.4	13.18	221	239	0.0	0.0	0.0	14.73	0	0	40.0	46.5	7.3	13.05	194	211
WEEK 4	2/18/99	0	0.0	0.0	14.73	0	0	37.0	37.5	11.0	13.38	242	255	40.0	40.0	4.5	13.29	154	164
	2/25/99	0	0.0	0.0	14.73	0	0	36.0	37.0	10.0	13.39	232	243	37.5	39.0	5.0	13.32	163	172
WEEK 5	2/25/99	40	32.0	6.4	13.57	186	194	36.0	33.0	9.5	13.54	227	235	0.0	0.0	0.0	14.73	0	0
	2/25/99	40	32.5	5.8	13.56	177	185	36.0	34.0	9.5	13.50	227	236	0.0	0.0	0.0	14.73	0	0
	2/25/99	40	33.5	5.8	13.52	176	185	36.0	34.0	9.0	13.50	221	229	0.0	0.0	0.0	14.73	0	0
	3/4/99	40	36.0	6.1	13.43	180	190	36.0	37.0	9.5	13.39	226	237	0.0	0.0	0.0	14.73	0	0
WEEK 6	3/4/99	41	35.5	8.6	13.45	214	226	0.0	0.0	0.0	14.73	0	0	38.0	35.5	6.5	13.45	187	196
	3/4/99	41	36.0	8.3	13.43	210	222	0.0	0.0	0.0	14.73	0	0	39.0	38.5	6.5	13.34	186	197
	3/4/99	41	37.0	7.9	13.39	205	217	0.0	0.0	0.0	14.73	0	0	39.0	39.5	7.0	13.30	192	204
	3/11/99	40	39.0	8.1	13.32	207	220	0.0	0.0	0.0	14.73	0	0	38.0	42.0	6.0	13.21	178	190
WEEK 7	3/11/99	0	0.0	0.0	14.73	0	0	36.0	38.0	10.0	13.36	231	243	38.0	41.0	5.0	13.25	162	173
	3/11/99	0	0.0	0.0	14.73	0	0	35.0	40.5	10.5	13.27	236	250	38.0	43.0	4.5	13.18	154	165

AIRFLOW CALCULATIONS

Table Purpose: Calculate airflows in the individual manifolds, blowers, and at the Pre-Carbon location.

Scenario	Date	Manifold A (FM 3)						Manifold B (FM 4)						Manifold C (FM 2)					
		Air Temp.	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum	Standard Air Flow	Actual Air Flow	Air Temp.	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum	Standard Air Flow	Actual Air Flow	Air Temp.	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum	Standard Air Flow	Actual Air Flow
		T _f (deg F)	(" of W.C.)	(" of W.C.)	P _f (psia)	(scfm)	(scfm)	T _f (deg F)	(" of W.C.)	(" of W.C.)	P _f (psia)	(scfm)	(scfm)	T _f (deg F)	(" of W.C.)	(" of W.C.)	P _f (psia)	(scfm)	(scfm)
WEEK 8	3/18/99	0	0.0	0.0	14.73	0	0	37.0	39.0	10.0	13.32	231	244	38.0	41.0	5.0	13.25	162	173
	3/18/99	0	0.0	0.0	14.73	0	0	38.0	39.0	10.0	13.32	230	244	38.0	42.0	5.0	13.21	162	173
	3/18/99	0	0.0	0.0	14.73	0	0	38.0	41.5	10.0	13.23	230	245	38.0	44.0	5.0	13.14	162	174
	3/25/99	0	0.0	0.0	14.73	0	0	37.0	24.5	4.5	13.85	158	160	40.0	26.0	2.3	13.79	111	114
WEEK 9	3/25/99	42	36.0	6.0	13.43	178	189	37.5	37.0	8.5	13.39	213	224	0.0	0.0	0.0	14.73	0	0
	3/25/99	42	37.5	6.1	13.38	180	191	37.0	38.5	8.0	13.34	206	218	0.0	0.0	0.0	14.73	0	0
	3/25/99	44	38.5	6.5	13.34	185	198	38.0	40.0	8.0	13.29	206	219	0.0	0.0	0.0	14.73	0	0
WEEK 10	4/1/99	45	37.5	8.7	13.38	214	229	0.0	0.0	0.0	14.73	0	0	42.0	40.0	6.5	13.29	185	198
	4/1/99	45	37.5	8.5	13.38	211	226	0.0	0.0	0.0	14.73	0	0	42.0	40.0	6.5	13.29	185	198
	4/1/99	46	38.5	8.0	13.34	205	220	0.0	0.0	0.0	14.73	0	0	43.0	41.0	6.8	13.25	188	202
	4/8/99	47	39.5	8.3	13.30	208	224	0.0	0.0	0.0	14.73	0	0	45.0	42.0	6.0	13.21	177	191
WEEK 11	4/8/99	0	0.0	0.0	14.73	0	0	41.0	36.0	11.5	13.43	247	261	45.0	38.0	5.0	13.36	162	174
	4/8/99	0	0.0	0.0	14.73	0	0	41.0	36.5	11.5	13.41	247	262	45.0	38.3	5.0	13.35	162	174
	4/8/99	0	0.0	0.0	14.73	0	0	41.0	37.8	11.5	13.37	247	262	45.0	40.0	5.0	13.29	162	174
	4/15/99	0	0.0	0.0	14.73	0	0	41.0	39.0	11.5	13.32	246	262	46.0	41.0	4.8	13.25	157	170
WEEK 12	4/15/99	48	32.5	6.8	13.56	190	201	43.5	33.5	9.5	13.52	225	237	0.0	0.0	0.0	14.73	0	0
	4/15/99	48	34.0	6.2	13.50	181	193	44.0	35.0	10.0	13.47	230	244	0.0	0.0	0.0	14.73	0	0
	4/15/99	48	35.0	6.2	13.47	181	193	43.0	36.0	9.5	13.43	224	238	0.0	0.0	0.0	14.73	0	0
	4/22/99	49	36.5	6.4	13.41	183	197	44	37.5	9	13.38	218	232	0.0	0.0	0.0	14.73	0	0
WEEK 13	4/22/99	49	36	8.75	13.43	214	230	0	0.0	0.0	14.73	0	0	47.5	38.5	7.0	13.34	191	206
	4/22/99	49	36.5	8.5	13.41	211	227	0	0.0	0.0	14.73	0	0	47.0	39.0	6.3	13.32	181	196
	4/22/99	49	37	8.25	13.39	208	223	0	0.0	0.0	14.73	0	0	47.0	39.5	7.3	13.30	194	210
	4/29/99	50	39	8.45	13.32	209	227	0	0.0	0.0	14.73	0	0	48.0	42.0	6.5	13.21	183	199
WEEK 14	4/29/99	0	0.0	0.0	14.73	0	0	44.5	36	11.5	13.43	247	262	49.0	39.0	5.3	13.32	165	179
	4/29/99	0	0.0	0.0	14.73	0	0	44	37.5	12	13.38	251	268	49.0	38.5	5.3	13.34	165	179
	4/29/99	0	0.0	0.0	14.73	0	0	44	37.5	11.5	13.38	246	263	49.0	39.0	5.3	13.32	165	179
WEEK 15	5/6/99	55	31.75	7.1	13.58	193	207	49	33	9.75	13.54	227	242	0.0	0.0	0.0	14.73	0	0
	5/6/99	54	31.75	7.1	13.58	193	207	49	32.5	9.5	13.56	224	238	0.0	0.0	0.0	14.73	0	0
	5/6/99	54	32.5	6.85	13.56	189	203	49	33.5	9.75	13.52	227	242	0.0	0.0	0.0	14.73	0	0
	5/13/99	53	34.5	6.15	13.48	179	193	50	35.5	9.5	13.45	223	240	0.0	0.0	0.0	14.73	0	0

AIRFLOW CALCULATIONS

Table Purpose: Calculate airflows in the individual manifolds, blowers, and at the Pre-Carbon location.

Scenario	Date	Manifold D (FM 6)						Manifold E (FM 5)						Soil Impoundment Manifold (FM 1)					
		Air Temp. T _i (deg F)	Gage Pressure / Vacuum (in. of W.C.)	Vapor Diff. Pressure (in. of W.C.)	Absolute Well Head Vacuum P _i (psia)	Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)	Air Temp. T _i (deg F)	Gage Pressure / Vacuum (in. of W.C.)	Vapor Diff. Pressure (in. of W.C.)	Absolute Well Head Vacuum P _i (psia)	Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)	Air Temp. T _i (deg F)	Gage Pressure / Vacuum (in. of W.C.)	Vapor Diff. Pressure (in. of W.C.)	Absolute Well Head Vacuum P _i (psia)	Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)
WEEK 1	1/28/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	10.0	2.8	14.37	126	125
	1/28/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	10.0	2.8	14.37	126	125
	1/29/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	38.0	10.0	2.9	14.37	129	127
	2/4/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	36.0	10.0	2.9	14.37	129	126
WEEK 2	2/4/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	21.5	2.0	13.95	105	107
	2/4/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	22.0	2.0	13.94	105	107
	2/5/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	22.0	2.0	13.94	105	107
	2/11/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	39.0	22.5	2.1	13.92	108	110
WEEK 3	2/11/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	39.0	10.0	3.0	14.37	131	129
	2/11/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	38.0	10.0	3.0	14.37	131	129
	2/12/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	10.0	3.0	14.37	131	129
	2/18/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	10.0	3.0	14.37	131	129
WEEK 4	2/18/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	41.0	10.0	2.9	14.37	128	127
	2/25/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	36.0	9.5	3.0	14.39	131	128
WEEK 5	3/4/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	36.0	8.0	3.0	14.44	132	128
	3/4/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	36.0	8.0	3.0	14.44	132	128
	3/4/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	36.0	8.0	3.0	14.44	132	128
	3/11/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	8.0	3.0	14.44	131	129
WEEK 6	3/11/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	40.0	21.5	2.1	13.95	108	109
	3/11/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	50.0	22.0	2.0	13.94	104	108
	3/18/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	39.0	22.0	2.1	13.94	108	109
	3/18/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	38.0	22.5	2.1	13.92	108	109
WEEK 7	3/18/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	3/25/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0

6/23/99

Raw Data - Airflow, Temp, Press

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AIRFLOW CALCULATIONS

Table Purpose: Calculate airflows in the individual manifolds, blowers, and at the Pre-Carbon location.

Scenario	Date	Manifold D (FM 6)						Manifold E (FM 5)						Soil Impoundment Manifold (FM 1)					
		Air Temp.	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum	Standard Air Flow	Actual Air Flow	Air Temp.	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum	Standard Air Flow	Actual Air Flow	Air Temp.	Gage Pressure / Vacuum	Vapor Diff. Pressure	Absolute Well Head Vacuum	Standard Air Flow	Actual Air Flow
		T _f (deg F)	(" of W.C.)	(" of W.C.)	P _f (psia)	(scfm)	(scfm)	T _f (deg F)	(" of W.C.)	(" of W.C.)	P _f (psia)	(scfm)	(scfm)	T _f (deg F)	(" of W.C.)	(" of W.C.)	P _f (psia)	(scfm)	(scfm)
WEEK 8	3/25/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	3/25/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	3/25/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/1/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
WEEK 9	4/1/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/1/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/8/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
WEEK 10	4/8/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/8/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/8/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/15/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
WEEK 11	4/15/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/15/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/15/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/22/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
WEEK 12	4/22/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/22/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/22/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/29/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
WEEK 13	4/22/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/22/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/22/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/29/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
WEEK 14	4/29/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/29/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	4/29/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
WEEK 15	5/6/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	5/6/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	5/6/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0
	5/13/99	0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0	0.0	0.0	0.0	14.73	0	0

6/23/99

Raw Data - Airflow, Temp, Press

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AIRFLOW CALCULATIONS

Table Purpose: Calculate airflows in the individual manifolds, blowers, and at the Pre-Carbon location.

Highlights:

- Manifold A, connected to SVE well 11, airflow ranged from 185 to 207 acfm and 176 to 193 acfm.
- Manifold A, connected to SVE well 13, airflow ranged from 217 to 239 acfm and 205 to 222 acfm.
- Manifold B, connected to SVE well 6, with the dilution notch set at position 9 airflow ranged from 243 to 268 acfm and 230 to 251 acfm. During Week 1 with the dilution notch set at 8 airflow ranged from 214 to 230 acfm and 205 to 220 acfm. The final airflow measurement of Week 8 with the dilution set at notch 7 airflow was 160 acfm and 158 acfm.
- Manifold B, connected to SVE well 9, airflow ranged from 218 to 244 acfm and 206 to 230 acfm.
- Manifold C, connected to SVE well 8, with the dilution notch set at position 9 airflow ranged from 163 to 179 acfm and 154 to 165 acfm. During Week 1 with the dilution notch set at 8 airflow ranged from 133 to 154 acfm and 126 to 146 acfm. The final airflow measurement of Week 8 with the dilution set at notch 7 airflow was 114 acfm and 111 acfm.
- Manifold C, connected to SVE well 14, airflow ranged from 190 to 220 acfm and 177 to 205 acfm.
- SI Manifold airflow ranged from 125 to 127 acfm and 126 to 129 acfm with the upper header screen of the South manifold active.
- SI Manifold airflow ranged from 107 to 110 acfm and 105 to 108 acfm with the lower header screen of the Middle manifold active.
- SI Manifold airflow was 129 acfm and 131 acfm with upper header screen of the North manifold active.
- SI Manifold airflow ranged from 127 to 128 acfm and 128 to 131 acfm with the Front upper header screens of the North and South manifolds active.
- SI Manifold airflow ranged from 128 to 129 acfm and 131 to 132 acfm with the Back upper header screens of the North and South manifolds active.
- SI Manifold airflow ranged from 108 to 109 acfm and 104 to 108 acfm with the Front lower header screen of the Middle manifold active.
- 20 hp blower airflow ranged from 364 to 458 acfm and 346 to 427 acfm.
- 3 hp blower airflow ranged from 107 to 129 acfm and 104 to 132 acfm.
- Pre-Carbon manifold airflow ranged from 696 to 750 acfm and 686 to 729 acfm with the SI active. With the SI inactive the Pre-Carbon manifold airflow ranged from 608 to 649 acfm and 590 to 617 acfm.

Scenario	Date	SVE SYSTEM 20 HP Blower *		SOIL IMPOUNDMENT 3HP Blower*		Pre-Carbon (FM 7)					
		Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)	Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)	Air Temp. T _i (deg F)	Gage Pressure / Vacuum (in. of W.C.)	Vapor Diff. Pressure (in. of W.C.)	Absolute Well Head Vacuum P _i (psia)	Standard Air Flow** Q _s (scfm)	Actual Air Flow** Q _a (scfm)
WEEK 1	1/28/99	351	368	126	125	40	22.5	7.0	13.92	728	741
	1/28/99	348	367	126	125	40	22.0	7.0	13.94	728	740
	1/29/99	353	372	129	127	38	22.0	6.8	13.94	719	728
	2/4/99	346	364	129	126	50	22.5	7.0	13.92	721	748
WEEK 2	2/4/99	404	426	105	107	54	21.5	6.8	13.95	708	739
	2/4/99	395	420	105	107	52	21.0	6.5	13.97	694	721
	2/5/99	402	426	105	107	43	21.0	6.6	13.97	706	720
	2/11/99	407	431	108	110	49	21.5	6.8	13.95	712	736
WEEK 3	2/11/99	427	458	131	129	53	22.0	7.0	13.94	719	750
	2/11/99	409	443	131	129	48	21.0	6.6	13.97	702	723
	2/12/99	408	442	131	129	58	21.0	6.6	13.97	696	731
	2/18/99	416	450	131	129	48	21.0	6.3	13.97	686	707
WEEK 4	2/18/99	396	419	128	127	49	22.0	6.6	13.94	701	725
	2/25/99	395	415	131	128	36	22.5	6.7	13.92	715	722
WEEK 5	2/25/99	413	429	132	128	38	23.0	7.0	13.90	729	740
	2/25/99	403	420	132	128	38	23.0	7.0	13.90	729	740
	2/25/99	397	414	132	128	38	23.0	6.8	13.90	718	729
	3/4/99	406	427	131	129	50	22.0	6.8	13.94	711	737
WEEK 6	3/4/99	401	422	108	109	50	21.5	6.4	13.95	690	714
	3/4/99	396	419	104	108	49	21.5	6.4	13.95	691	714
	3/4/99	397	421	108	109	45	21.5	6.4	13.95	693	711
	3/11/99	385	410	108	109	40	21.0	6.2	13.97	686	696
WEEK 7	3/11/99	394	416	0	0	44	17.5	5.0	14.10	617	624
	3/11/99	390	414	0	0	46	17.0	4.8	14.12	603	613

6/23/99

Raw Data - Airflow, Temp, Press

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AIRFLOW CALCULATIONS

Table Purpose: Calculate airflows in the individual manifolds, blowers, and at the Pre-Carbon location.

Scenario	Date	SVE SYSTEM 20 HP Blower *		SOIL IMPOUNDMENT 3HP Blower *		Pre-Carbon (FM 7)					
		Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)	Standard Air Flow Q _s (scfm)	Actual Air Flow Q _a (scfm)	Air Temp. T _r (deg F)	Gage Pressure / Vacuum (in. of W.C.)	Vapor Diff. Pressure (in. of W.C.)	Absolute Well Head Vacuum P _r (psia)	Standard Air Flow** Q _s (scfm)	Actual Air Flow** Q _a (scfm)
WEEK 8	3/18/99	393	417	0	0	72	18.0	5.0	14.08	600	642
	3/18/99	393	417	0	0	64	17.5	5.0	14.10	605	637
	3/18/99	391	419	0	0	62	17.0	5.0	14.12	606	635
	3/25/99	269	274	0	0	50	20.0	5.6	14.01	647	667
WEEK 9	3/25/99	392	413	0	0	52	18.5	5.0	14.06	611	630
	3/25/99	386	409	0	0	54	17.5	5.0	14.10	611	631
	3/25/99	391	416	0	0	56	17.5	5.0	14.10	609	632
WEEK 10	4/1/99	399	426	0	0	61	17.5	5.0	14.10	606	635
	4/1/99	396	424	0	0	63	17.5	5.0	14.10	605	636
	4/1/99	392	422	0	0	68	17.5	4.8	14.10	590	626
	4/8/99	384	416	0	0	60	17.5	4.6	14.10	582	608
WEEK 11	4/8/99	409	435	0	0	66	18.0	4.9	14.08	597	632
	4/8/99	409	435	0	0	76	18.0	5.0	14.08	598	644
	4/8/99	408	436	0	0	77	17.5	5.0	14.10	597	645
	4/15/99	403	432	0	0	66	17.5	5.0	14.10	604	638
WEEK 12	4/15/99	415	439	0	0	70	18.5	5.1	14.06	606	648
	4/15/99	411	437	0	0	72	18.5	5.1	14.06	605	649
	4/15/99	405	431	0	0	70	18.0	5.1	14.08	607	647
	4/22/99	401	429	0	0	58	18.0	4.9	14.08	602	627
WEEK 13	4/22/99	405	436	0	0	58	18.0	4.9	14.08	602	627
	4/22/99	391	421	0	0	61	18.0	4.8	14.08	594	622
	4/22/99	402	433	0	0	61	17.8	4.8	14.09	594	622
	4/29/99	392	426	0	0	62	17.8	4.8	14.09	593	623
WEEK 14	4/29/99	412	441	0	0	64	18.5	5.0	14.06	604	638
	4/29/99	417	447	0	0	68	18.3	5.1	14.07	608	646
	4/29/99	411	441	0	0	64	18.3	5.0	14.07	604	637
WEEK 15	5/6/99	420	449	0	0	70	19.0	5.2	14.04	612	654
	5/6/99	417	445	0	0	71	19.0	5.2	14.04	611	655
	5/6/99	416	445	0	0	72	19.0	5.1	14.04	605	649
	5/13/99	402	433	0	0	70	18.3	5.0	14.07	601	641

* Airflows calculated by summation of Manifold Values

** Pre-Carbon air flows include dilution air.

Note: $P_r = P_{atm} - (0.0361 \times \text{inches W.C.})$

$Q_s = C_1 \times \sqrt{d_p \times P_r / (SG_a(T_r + 460))}$

$Q_a = Q_s \times [(14.73/P_r) \times ((T_r + 460)/520)]$

$C_1 = 128.8 \times K \times \sqrt{q(D_i)} \times F_e$

$C_1 = 445.51$ (flow constant)

$SG_a = 1$ (specific gravity of air at STD)

$K = 0.2134$ (flow coefficient of venturi meter)

$F_e = 1$ (thermal expansion of pipe)

$D_i = 4.026$ (inside pipe diameter)

$C_1 = 1,648.76$ (flow constant)

$SG_a = 1$ (specific gravity of air at STD)

$K = 0.3480$ (flow coefficient of venturi meter)

$F_e = 1$ (thermal expansion of pipe)

$D_i = 6.065$ (inside pipe diameter)

6/23/99

Raw Data - Airflow, Temp, Press

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**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

AIRFLOW SUMMARY (acfm)

Table Purpose: Summarize airflows calculated from previous tables.

	Date	Manifold A	Manifold B	Manifold C	Manifold D	Manifold E	SI Manifold	Pre-Carbon	Dilution Air
WEEK 1	1/28/99	0	214	154	0	0	125	741	248
	1/28/99	0	223	144	0	0	125	740	248
	1/29/99	0	228	144	0	0	127	728	229
	2/4/99	0	230	133	0	0	126	748	258
WEEK 2	2/4/99	189	237	0	0	0	107	739	206
	2/4/99	190	230	0	0	0	107	721	193
	2/5/99	196	230	0	0	0	107	720	187
	2/11/99	193	239	0	0	0	110	736	195
WEEK 3	2/11/99	238	0	220	0	0	129	750	163
	2/11/99	236	0	207	0	0	129	723	152
	2/12/99	235	0	207	0	0	129	731	160
	2/18/99	239	0	211	0	0	129	707	128
WEEK 4	2/18/99	0	255	164	0	0	127	725	179
	2/25/99	0	243	172	0	0	128	722	178
WEEK 5	2/25/99	194	235	0	0	0	128	740	182
	2/25/99	185	236	0	0	0	128	740	191
	2/25/99	185	229	0	0	0	128	729	187
	3/4/99	190	237	0	0	0	129	737	181
WEEK 6	3/4/99	226	0	196	0	0	109	714	183
	3/4/99	222	0	197	0	0	108	714	187
	3/4/99	217	0	204	0	0	109	711	180
	3/11/99	220	0	190	0	0	109	696	176
WEEK 7	3/11/99	0	243	173	0	0	0	624	208
	3/11/99	0	250	165	0	0	0	613	198
WEEK 8	3/18/99	0	244	173	0	0	0	642	225
	3/18/99	0	244	173	0	0	0	637	219
	3/18/99	0	245	174	0	0	0	635	217
	3/25/99	0	160	114	0	0	0	667	393

AIRFLOW SUMMARY (acfm)

Table Purpose: Summarize airflows calculated from previous tables.

	Date	Manifold A	Manifold B	Manifold C	Manifold D	Manifold E	SI Manifold	Pre-Carbon	Dilution Air
WEEK 9	3/25/99	189	224	0	0	0	0	630	217
	3/25/99	191	218	0	0	0	0	631	222
	3/25/99	198	219	0	0	0	0	632	216
WEEK 10	4/1/99	229	0	198	0	0	0	635	208
	4/1/99	226	0	198	0	0	0	636	212
	4/1/99	220	0	202	0	0	0	626	204
	4/8/99	224	0	191	0	0	0	608	193
WEEK 11	4/8/99	0	261	174	0	0	0	632	197
	4/8/99	0	262	174	0	0	0	644	209
	4/8/99	0	262	174	0	0	0	645	209
	4/15/99	0	262	170	0	0	0	638	205
WEEK 12	4/15/99	201	237	0	0	0	0	648	209
	4/15/99	193	244	0	0	0	0	649	212
	4/15/99	193	238	0	0	0	0	647	216
	4/22/99	197	232	0	0	0	0	627	198
WEEK 13	4/22/99	230	0	206	0	0	0	627	191
	4/22/99	227	0	195	0	0	0	622	201
	4/22/99	223	0	210	0	0	0	622	189
	4/29/99	227	0	199	0	0	0	623	196
WEEK 14	4/29/99	0	262	179	0	0	0	638	196
	4/29/99	0	268	179	0	0	0	646	199
	4/29/99	0	263	179	0	0	0	637	196
WEEK 15	5/6/99	207	242	0	0	0	0	654	206
	5/6/99	207	238	0	0	0	0	655	210
	5/6/99	203	242	0	0	0	0	649	204
	5/13/99	193	240	0	0	0	0	641	208

- Highlights:
- Dilution air is estimated by the summation of Manifold airflows minus Pre-Carbon airflow.
 - Setting of dilution valve on 20 hp altered after Week 1 operation resulting in a decrease in dilution air.
 - Increase in dilution air at the end of Week 8 operation is the result of opening the dilution valve on 3/22/99
 - Decrease in airflow in SI manifold during Weeks 2 and 6 is the result of the operating the header screens of the Middle SI Manifold.

6/23/99

Summary - Airflow

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**SOIL REMEDIAL ACTION
SVE OPERATION AND MAINTENANCE
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

SUMMARY OF WATER LEVELS AT MONITOR WELLS (feet below grade)

Table Purpose: Summary of water levels measured at monitor wells.

Well Number	Screen Interval	WEEK 1			WEEK 2			WEEK 3			WEEK 4
		1/28/99	1/29/99	2/4/99	2/4/99	2/5/99	2/11/99	2/11/99	2/12/99	2/18/99	2/25/99
MW-28B	38 - 48	17.76	17.72	17.54	17.53	17.52	17.54	17.54	17.53	17.60	17.74
MW-45A	13 - 28	18.60	18.59	18.43	18.44	18.41	18.42	18.43	19.43	18.49	18.63
MW-45B	40.5 - 50.5	18.42	18.42	18.25	18.26	18.23	18.26	18.27	18.26	18.30	18.47
MW-51A	18 - 28	16.60	16.60	17.44	17.44	17.42	17.41	17.44	17.43	17.49	17.65
MW-52A	19 - 29	17.02	17.02	16.84	16.85	16.83	16.84	16.86	16.86	16.90	17.01
MW-98-01A	17 - 27	21.16	21.06	20.89	20.92	20.88	20.86	20.84	20.84	20.89	21.09
MW-98-01B	35 - 45	20.11	20.07	19.90	19.93	19.89	19.89	19.89	19.89	19.93	20.10
MW-98-02A	16.5 - 26.5	19.48	19.42	19.25	19.26	19.24	19.25	19.24	19.23	19.30	19.47
MW-98-02B	35 - 45	18.42	18.40	18.23	18.23	18.21	18.22	18.23	18.23	18.31	18.50
MW-98-3A	19 - 29	23.95	23.96	23.69	23.71	23.67	23.66	23.66	23.67	23.70	23.88
MW-98-04	15 - 25	20.01	20.02	19.84	19.85	19.81	19.80	19.84	19.83	18.89	20.05
MW-98-05A	17.5 - 27.5	20.77	20.72	20.55	20.56	20.53	20.54	20.54	20.54	20.58	20.75
MW-98-05B	32.5 - 42.5	20.86	20.75	20.57	20.60	20.55	20.54	20.54	20.53	20.58	20.77
MW-98-06A		24.96	24.92	24.75	24.76	24.73	24.72	24.71	24.71	24.75	24.91
MW-98-06B	35 - 45	24.91	24.87	24.72	23.72	24.70	24.68	24.69	24.69	24.72	24.90
MW-98-07	19 - 29	27.96	27.92	27.75	27.77	27.73	27.72	27.73	27.72	27.76	27.93
MW-98-08	22.5 - 32.5	27.17	27.13	26.97	26.98	26.95	26.94	26.97	26.96	27.01	27.15

SUMMARY OF WATER LEVELS AT MONITOR WELLS (feet below grade)

Table Purpose: Summary of water levels measured at monitor wells.

Well Number	Screen Interval	WEEK 5	WEEK 6	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13	WEEK 14	WEEK 15
		3/4/99	3/11/99	3/18/99	3/25/99	4/1/99	4/8/99	4/15/99	4/22/99	4/29/99	5/6/99
MW-28B	38 - 48	17.72	17.68	17.56	17.48	17.59	17.67	17.75	17.87	17.94	18.05
MW-45A	13 - 28	18.62	18.57	18.45	18.33	18.43	18.52	18.59	18.68	18.79	18.90
MW-45B	40.5 - 50.5	18.46	18.40	18.28	18.20	18.27	18.39	18.46	18.54	18.65	19.76
MW-51A	18 - 28	17.64	17.58	16.88	17.35	17.43	16.98	17.05	17.12	17.25	17.35
MW-52A	19 - 29	17.07	17.00	17.46	16.77	16.86	17.53	17.61	17.68	17.82	17.93
MW-98-01A	17 - 27	21.08	21.00	20.91	20.90	21.01	20.55	20.62	20.71	20.82	20.92
MW-98-01B	35 - 45	20.09	19.99	19.92	19.83	19.92	20.00	20.07	20.10	20.22	20.32
MW-98-02A	16.5 - 26.5	19.46	19.40	19.26	19.18	19.26	19.36	19.42	19.50	19.61	19.71
MW-98-02B	35 - 45	18.48	18.43	18.32	18.17	18.25	18.36	18.43	18.51	18.63	18.73
MW-98-3A	19 - 29	23.87	23.82	23.70	23.58	23.67	23.76	23.83	23.91	24.02	24.12
MW-98-04	15 - 25	20.06	20.02	19.71	19.74	19.83	19.92	19.98	20.06	21.18	21.29
MW-98-05A	17.5 - 27.5	20.75	20.70	20.56	20.47	20.55	20.65	20.72	20.80	20.92	21.02
MW-98-05B	32.5 - 42.5	20.76	20.71	20.59	20.48	20.56	20.64	20.71	20.75	20.86	20.96
MW-98-06A		24.91	24.85	24.76	24.65	24.75	24.83	24.90	24.95	25.07	25.18
MW-98-06B	35 - 45	24.90	24.84	24.70	24.62	24.71	24.80	24.88	24.95	25.07	25.19
MW-98-07	19 - 29	27.92	27.86	27.75	27.66	27.74	27.83	27.91	27.98	28.10	28.21
MW-98-08	22.5 - 32.5	27.15	27.08	26.97	26.88	26.97	27.05	27.12	27.20	27.32	27.42

6/23/99

Water Level - Summary

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APPENDIX II
WASTE MANIFESTS

NYH0077661

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212



ease type or print. Do not staple.

(Rev. 3/97)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYR000054411		Manifest Doc. No. 77661		2. Page 1 of 1		Information within heavy bold line is not required by Federal Law.							
3. Generator's Name and Mailing Address 1668 SAG HARBOR RD. HAMILTON TWP. SAG HARBOR NY 11963						A. NYH0077661									
4. Generator's Telephone Number (516) 586-0333						B. Generator's ID SAME									
5. Transporter 1 (Company Name) CHEMICAL POLLUTION CONTROL INC.						C. State Transporter's ID PU8913									
6. US EPA ID Number NYD082785429						D. Transporter's Telephone (516) 586-0333									
7. Transporter 2 (Company Name)						E. State Transporter's ID									
8. US EPA ID Number						F. Transporter's Telephone									
9. Designated Facility Name and Site Address CHEMICAL POLLUTION CONTROL 120 SOUTH FOURTH ST. ROCHESTER NY 11706						G. State Facility ID									
10. US EPA ID Number NYD082785429						H. Facility Telephone (516) 586-0333									
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
a. RQ HAZARDOUS WASTE, LIQUID, H.O.S., 9, NA3082, PS III (F001)						001 OF		00020 G				EPA F001			
b. RQ HAZARDOUS WASTE LIQUID NOS 9 NA3082 PS III (F001)						015 DM		00825 G				EPA F001			
c.												EPA			
d.												EPA			
J. Additional Descriptions for Materials listed Above						K. Handling Codes for Wastes Listed Above									
a. 1 503730						X		1							
b. 1 503720						X		1							
15. Special Handling Instructions and Additional Information.						EMERGENCY PHONE 516 586-0333									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name B. J. Thomas						Signature [Signature]						Mo. Day Year 04/08/99			
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name M. J. Smith						Signature [Signature]		Mo. Day Year 04/08/99	
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature		Mo. Day Year	
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of Receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name FRANK FAZIO						Signature [Signature]						Mo. Day Year 04/08/99			



Bureau of Land Recycling and Waste Management
P.O. Box 8550
Harrisburg, PA 17105-8550
OFFICIAL PENNSYLVANIA MANIFEST FORM

Form approved.
OMB No. 2050-0039
Expires 9-30-99

EP-LRWMS1 REV. 3/97

UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest
Document No.

2. Page 1
of

Information within the blue border is not
required by Federal law but may be
required by State law.

Generator's Name and Mailing Address

Former Rowe Industries Site
126 Monroe Turnpike, Trumbull, CT 06611

4. Generator's Phone (203) 452-3100

5. Transporter 1 Company Name

Autumn Industries

6. US EPA ID Number

08D986974780

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Envirotrol, Inc.
118 Park Road
Darlington, PA 16115

10. US EPA ID Number

PA D987270725

A. State Manifest Document Number

PAE 9216970

B. State Gen. ID

Sag Harbor Turnpike
Sag Harbor, NY 11963

C. State Trans. ID

PA-AH 0267

D. Transporter's Phone ()

E. State Trans. ID

PA-AH

F. Transporter's Phone ()

G. State Facility's ID

H. Facility's Phone (412) 741-2030

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers

No.

Type

13.
Total
Quantity

14.
Unit
Wt/Vol

15.
Waste No.

a. Hazardous Waste Solid H.O.S. (spent activated carbon
contains 1,1,1-trichloroethane, tetrachloroethene
9, NA3077, PGIII)

12

DM

2000

P

FO01
D039

Additional Descriptions for Materials Listed Above

Lab Pack

Physical State

Lab Pack

Physical State

K. Handling Codes for Wastes Listed Above

T18

Activated carbon re-activation
recycling for beneficial use

15. Special Handling Instructions and Additional Information

Chemtrec Emergency Response Number (202) 887-1255
EPA 600/3-90/010

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are
classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically
practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and
the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to
me and that I can afford.

Printed/Typed Name

Leggette, Brashears & Graham, Inc.

Signature

Paul Jobmann

MONTH DAY YEAR

6/1/99

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name

Edward H. Homan

Signature

Edward H. Homan

MONTH DAY YEAR

6/1/99

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

MONTH DAY YEAR

19. Discrepancy Indication Space

NET WT in Pounds 3621

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

James A. Wilson

Signature

James A. Wilson

MONTH DAY YEAR

6/20/99

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. **25460**

AUTUMN
(Name of Carrier)

Carrier's No.

Subject to the classifications and tariffs in effect on the date of the issue of the Bill of Lading.

At **VIROTOR T.V. 610 PAINE RD. WESTERLY CT 06399** From **PBT WISE**

As described below, in apparent good order, except insofar as (contents and conditions of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood to mean any person or persons in possession of the property under the contract, agrees to carry to its usual place of delivery at said destination, if on its own route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, at the instigation of all or any of said property owner or any portion of said route to destination, and as to each party at any time limited in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading, set forth (1) in Official, Southern, Western and Illinois Freight Classification in effect on the date thereof. If this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and that all terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to **HANDEX OF NEW YORK**

Destination **FORMEL ROWE INDUSTRIES** State **NY** Zip **11963** County

Delivery Address **K&S SWS HARBOR PIKE**

Route

Delivering Carrier Car or Vehicle Initials No.

No. Packages	Kind of Package, Description of Articles, Special Marks, and Exceptions	WEIGHT (Subject to Correction)	Class or Rate	Check Column
3	CLASS 70 PALLETS, CONTAINING 60/50 "BASS OF VARGW ACTIVATED CARBON, SLEEVED TO A 4X10 MESH @ 1,000 EA.	3,000	EI 410(F)	
75	EMPTY, HAZ APPROVED METAL DRUMS CLASS 92 NOT A HAZARDOUS MATERIAL UNDER US DOT REGULATIONS FREIGHT TO BE PAID BY: ENVIROTRAL INC. 432	750	MT DM TARE WT	
	GREEN ST. PO BOX 61 SEWICKLEY PA 15143	3,750	Nbs HL	

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

If charges are to be prepaid, write or stamp here: "To Be Prepaid."

Received \$
to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

Shipper's imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission.

If boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of the Consolidated Freight Classification.

Shipper, Per **Y. C. May 1-27-99**

Agent, Per **E. W. Jones**

Permanent post office address of shipper.

Wilson Jones

Carbonless Snap-A-Way® Forms
ACCO USA, Inc. Made in U.S.A.

44-301 • Triplicate
44-302 • Quadruplicate

APPENDIX III

LABORATORY REPORTS AND CHAINS OF CUSTODY

**FACSIMILE COVER SHEET**

Severn Trent Laboratories
200 Monroe Turnpike
Monroe CT 06468

Tel: (203) 261-4458
Fax: (203) 268-5346

DATE: 2-8-99

NUMBER OF PAGES (INCLUDING COVER SHEET) 4

TO: Al Koualik

LOCATION: LRBG

TELEPHONE NO. _____ FAX NO. _____

FROM: JOHANNA DUBAUSKAS

LOCATION: SEVERN TRENT LABORATORIES-CT

TELEPHONE NO: (203) 261-4458 FAX NO. (203) 268-5346

RE: Rowe SUE Project **MESSAGE**

Al,

Here are results for samples submitted to STL on
2-1-99 that you asked for rush turnaround on

J-hc

Other Laboratory Locations:

• 149 Ringway Road, North Billerica MA 01862
• 10203 Park Row, Suite 110, Houston TX 77084
• 120 Southcenter Court, Suite 300, Morrisville NC 27560

• 315 Fullerton Avenue, Newburgh NY 12550
• 11 East Olive Road, Pensacola FL 32514
• Westford Corporate Park, 63 Southampton Road, Westford MA 01086
• 628 Route 10, Whippany NJ 07981

a part of
Severn Trent Services Inc.

TABLE VO-1.0
7099-0197A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP1 0128A	SMP2 0128A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKM5	990197A-01	990197A-02	
Method Blank I.D.	VBLKM5	VBLKM5	VBLKM5	
Quant. Factor	1.00	1.00	400.	
Chloromethane	U	U	U	0.02
Bromomethane	.011J	.0032JB	2.7JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.043	1.1J	0.01
Carbon Disulfide	U	.012	.39499272J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.09	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.013	1.2J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	.0032J	.2116905J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	.14	40	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.025	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.0038J	U	0.01
Styrene	U	.0019J	U	0.01
m,p-Xylene	U	.01135516	U	0.01
o-Xylene	U	.00423152J	U	0.01
Date Received		02/01/99	02/01/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/05/99	02/05/99	02/05/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0197A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP4 0128A	SMP7 0128A	SMP8 0128A	Quant. Limits with no Dilution
Lab Sample I.D.	990197A-03	990197A-04	990197A-05	
Method Blank I.D.	VBKLM5	VBKLM5	VBKLM5	
Quant. Factor	200.	200.	5.00	
Chloromethane	U	U	.13	0.02
Bromomethane	U	U	.018JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	.0135J	0.01
Carbon Disulfide	.17501421J	U	.0115J	0.01
1,1-Dichloroethane	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethane	.54J	.5J	.023J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	.028J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	64	30	1.2	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received	02/01/99	02/01/99	02/01/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/05/99	02/05/99	02/05/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.2
7099-0197A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP9 0128A			Quant. Limits with no Dilution
Lab Sample I.D.	990197A-06			
Method Blank I.D.	VBLKM5			
Quant. Factor	1.54			
Chloromethane	.01J			0.02
Bromomethane	.01015385JB			0.02
Vinyl Chloride	U			0.02
Chloroethane	U			0.02
Methylene Chloride	U			0.01
Carbon Disulfide	.02			0.01
1,1-Dichloroethene	.01846154			0.01
1,1-Dichloroethane	U			0.01
1,2-Dichloroethene (trans)	.02153846	3.97		0.01
1,2-Dichloroethene (cis)	.02	3.97		0.01
Chloroform	U			0.01
1,2-Dichloroethane	.00215385J	4.05		0.01
1,1,1-Trichloroethane	.00276923J			0.01
Carbon Tetrachloride	U			0.01
Bromodichloromethane	U			0.01
1,2-Dichloropropane	U			0.01
cis-1,3-Dichloropropene	U			0.01
Trichloroethene	.07384615			0.01
Dibromochloromethane	U			0.01
1,1,2-Trichloroethane	U			0.01
Benzene	.23076923			0.01
trans-1,3-Dichloropropene	U			0.01
Bromoform	U			0.01
Tetrachloroethene	.03846154			0.01
1,1,2,2-Tetrachloroethane	.00738462J	6.87		0.01
Toluene	.01846154			0.01
Chlorobenzene	.83076923E	4.61		0.01
Ethylbenzene	.00538462J			0.01
Styrene	U			0.01
m,p-Xylene	.00473624J			0.01
o-Xylene	U			0.01
Date Received	02/01/99			
Date Extracted	N/A			
Date Analyzed	02/05/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

TABLE VO-1.0
7099-0240A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP1 0204B		Quant. Limits with no Dilution
Lab Sample I.D.	VBLKM7	990240A-04		
Method Blank I.D.	VBLKM7	VBLKM7		
Quant. Factor	1.00	1.00		
Chloromethane	U	U		0.02
Bromomethane	U	U		0.02
Vinyl Chloride	U	U		0.02
Chloroethane	U	U		0.02
Methylene Chloride	U	U		0.01
Carbon Disulfide	U	.0058J		0.01
1,1-Dichloroethene	U	.0083J		0.01
1,1-Dichloroethane	U	U		0.01
1,2-Dichloroethene (trans)	U	U		0.01
1,2-Dichloroethene (cis)	U	U		0.01
Chloroform	U	U		0.01
1,2-Dichloroethane	U	U		0.01
1,1,1-Trichloroethane	U	.022		0.01
Carbon Tetrachloride	U	U		0.01
Bromodichloromethane	U	U		0.01
1,2-Dichloropropane	U	U		0.01
cis-1,3-Dichloropropene	U	U		0.01
Trichloroethene	U	U		0.01
Dibromochloromethane	U	U		0.01
1,1,2-Trichloroethane	U	U		0.01
Benzene	U	U		0.01
trans-1,3-Dichloropropene	U	U		0.01
Bromoform	U	U		0.01
Tetrachloroethene	U	.34		0.01
1,1,2,2-Tetrachloroethane	U	U		0.01
Toluene	U	.018		0.01
Chlorobenzene	U	U		0.01
Ethylbenzene	U	U		0.01
Styrene	U	U		0.01
m,p-Xylene	U	.00792481J		0.01
o-Xylene	U	U		0.01
Date Received		02/05/99		
Date Extracted	N/A	N/A		
Date Analyzed	02/08/99	02/08/99		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.4
7099-0240A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

A1:

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP9 0204A	SMP9 0204B	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKME	990240A-03	990240A-09	
Method Blank I.D.	VBLKME	VBLKME	VBLKME	
Quant. Factor	1.00	1.54	2.86	
Chloromethane	U	.03692308	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.08307692	U	0.01
Carbon Disulfide	U	.00169231J	.01457143J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	.0024J	.01692308B	.02114286JB	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	.00461538J	.00171901J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	U	.00857143J	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.00261538J	.01114286J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	.00260629J	0.01
m,p-Xylene	U	U	.0065455J	0.01
o-Xylene	U	U	U	0.01
Date Received		02/05/99	02/05/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/11/99	02/11/99	02/11/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.3
7099-0240A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP8 0204B			Quant. Limits with no Dilution
Lab Sample I.D.	990240A-08			
Method Blank I.D.	VBLKMD			
Quant. Factor	5.00			
Chloromethane	U			0.02
Bromomethane	U			0.02
Vinyl Chloride	U			0.02
Chloroethane	U			0.02
Methylene Chloride	.055			0.01
Carbon Disulfide	.012U			0.01
1,1-Dichloroethene	U			0.01
1,1-Dichloroethane	U			0.01
1,2-Dichloroethene (trans)	U			0.01
1,2-Dichloroethene (cis)	U			0.01
Chloroform	U			0.01
1,2-Dichloroethane	U			0.01
1,1,1-Trichloroethane	U			0.01
Carbon Tetrachloride	U			0.01
Bromodichloromethane	U			0.01
1,2-Dichloropropane	U			0.01
cis-1,3-Dichloropropene	U			0.01
Trichloroethene	.026JB			0.01
Dibromochloromethane	U			0.01
1,1,2-Trichloroethane	U			0.01
Benzene	U			0.01
trans-1,3-Dichloropropene	U			0.01
Bromoform	U			0.01
Tetrachloroethene	.8			0.01
1,1,2,2-Tetrachloroethane	U			0.01
Toluene	.00385483J			0.01
Chlorobenzene	U			0.01
Ethylbenzene	U			0.01
Styrene	U			0.01
m,p-Xylene	U			0.01
o-Xylene	U			0.01
Date Received	02/05/99			
Date Extracted	N/A			
Date Analyzed	02/10/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.1
7099-0240A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP7 0204A	SMP8 0204A	Quant. Limits with no Dilution
Lab Sample I.D.	VELKMD	990240A-01	990240A-02	
Method Blank I.D.	VELKMD	VELKMD	VELKMD	
Quant. Factor	1.00	50.0	5.00	
Chloromethane	U	U	.037J	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	.085	0.01
Carbon Disulfide	U	U	.0095J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	.0028J	.19JB	.0275JB	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	.00216976J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	9	.55	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		02/05/99	02/05/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/10/99	02/10/99	02/10/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.2
7099-0240A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP3 0204B	SMP4 0204B	SMP7 0204B	Quant. Limits with no Dilution
Lab Sample I.D.	990240A-05	990240A-06	990240A-07	
Method Blank I.D.	VBLKMD	VBLKMD	VBLKMD	
Quant. Factor	400.	50.0	200.	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	U	0.01
Carbon Disulfide	U	U	10181119J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	1.2JB	.145JB	38JB	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	.64J	U	U	0.01
Benzene	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	68	9	17	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received	02/05/99	02/05/99	02/05/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/10/99	02/10/99	02/10/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.3
7099-0313A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP2 0211B	SMP3 0211B	Quant. Limits with no Dilution
Lab Sample I.D.	VELKMOV	990313A-05	990313A-06	
Method Blank I.D.	VELKMOV	VELKMOV	VELKMOV	
Quant. Factor	1.00	133.	33.3	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.41333333J	U	0.01
Carbon Disulfide	U	.14666667J	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.09240998J	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
1,1,1-Trichloroethane	U	U	1.2	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.00046677J	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	23 3.338	5 0.726	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		02/12/99	02/12/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/18/99	02/18/99	02/18/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.2
7099-0313A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP9 0211B			
Lab Sample I.D.	990313A-09			Quant. Limits
Method Blank I.D.	VBLKMU			with no
Quant. Factor	1.54			Dilution
Chloromethane	U			0.02
Bromomethane	U			0.02
Vinyl Chloride	U			0.02
Chloroethane	U			0.02
Methylene Chloride	U			0.01
Carbon Disulfide	.00446154J			0.01
1,1-Dichloroethene	U			0.01
1,1-Dichloroethane	U			0.01
1,2-Dichloroethene (trans)	U			0.01
1,2-Dichloroethene (cis)	U			0.01
Chloroform	U			0.01
1,2-Dichloroethane	U			0.01
1,1,1-Trichloroethane	U			0.01
Carbon Tetrachloride	U			0.01
Bromodichloromethane	U			0.01
1,2-Dichloropropane	U			0.01
1,3-Dichloropropane	U			0.01
1,1,2-Trichloroethane	.03692308			0.01
Dibromochloromethane	U			0.01
1,1,2-Trichloroethane	U			0.01
Benzene	.00169231JB			0.01
trans-1,3-Dichloropropene	U			0.01
Bromoform	U			0.01
Tetrachloroethene	.00353846J	0.000514		0.01
1,1,2,2-Tetrachloroethane	U			0.01
Toluene	.00353846J			0.01
Chlorobenzene	U			0.01
Ethylbenzene	U			0.01
Styrene	U			0.01
m&p-Xylene	.00211138J			0.01
o-Xylene	U			0.01
Date Received	02/12/99			
Date Extracted	N/A			
Date Analyzed	02/17/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0313A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP9 0211A	SMP1 0211B	SMP8 0211B	Quant. Limits with no Dilution
Lab Sample I.D.	990313A-03	990313A-04	990313A-08	
Method Blank I.D.	VBKMU	VBKMU	VBKMU	
Quant. Factor	1.54	1.00	5.00	
Chloromethane	.02923077J	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	U	0.01
Carbon Disulfide	.00861538J	.0055J	.008J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.0027J	.0175J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.00646154JB	.0025JB	.00395857JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	.013 0.008	.8 0.11611	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.00723077J	.0089J	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.0012J	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	.00125476J	.00644299J	U	0.01
o-Xylene	U	.00189686J	U	0.01
Date Received	02/12/99	02/12/99	02/12/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/17/99	02/17/99	02/17/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.4
7099-0313A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0211B			
Lab Sample I.D.	990313A-07			Quant. Limits
Method Blank I.D.	VLKMW			with no
Quant. Factor	100.			Dilution
Chloromethane	2.1			0.02
Bromomethane	U			0.02
Vinyl Chloride	U			0.02
Chloroethane	U			0.02
Methylene Chloride	.69J			0.01
Carbon Disulfide	U			0.01
1,1-Dichloroethene	.49J			0.01
1,1-Dichloroethane	U			0.01
1,2-Dichloroethene (trans)	U			0.01
1,2-Dichloroethene (cis)	U			0.01
Chloroform	U			0.01
1,2-Dichloroethane	U			0.01
1,1,1-Trichloroethane	U			0.01
Carbon Tetrachloride	U			0.01
Bromodichloromethane	U			0.01
1,2-Dichloropropane	U			0.01
1,3-Dichloropropane	U			0.01
1,1,1,2-Tetrachloroethane	13			0.01
Dibromochloromethane	U			0.01
1,1,2-Trichloroethane	U			0.01
Benzene	.42JB			0.01
trans-1,3-Dichloropropene	U			0.01
Bromoform	U			0.01
Tetrachloroethene	4.4	0.6386		0.01
1,1,2,2-Tetrachloroethane	U			0.01
Toluene	.04236697J			0.01
Chlorobenzene	U			0.01
Ethylbenzene	U			0.01
Styrene	U			0.01
m&p-Xylene	U			0.01
o-Xylene	U			0.01
Date Received	02/12/99			
Date Extracted	N/A			
Date Analyzed	02/18/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.0
7099-0313A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP7 0211A	SMP8 0211A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKMU	990313A-01	990313A-02	
Method Blank I.D.	VBLKMU	VBLKMU	VBLKMU	
Quant. Factor	1.00	100.	5.00	
Chloromethane	U	.95J	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.0044J	.72JB	U	0.01
Carbon Disulfide	U	U	.0135J	0.01
1,1-Dichloroethene	U	.19J	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	.015J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
is-1,3-Dichloropropene	U	U	U	0.01
richloroethene	U	.32J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.004J	.39JB	.00383319JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	10 1.45	.85 0.1254	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	.005J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		02/12/99	02/12/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/17/99	02/17/99	02/17/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.0
7099-0358A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP 9 0218A	SMP 1 0218B	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKME	990358A-03	990358A-04	
Method Blank I.D.	VBLKME	VBLKME	VBLKME	
Quant. Factor	1.00	1.00	1.00	
Chloromethane	U	.015J	U	0.02
Bromomethane	U	.012J	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.016	.0076J	0.01
Carbon Disulfide	U	.0081J	.009J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	.0037J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	.002J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	.0015J	.0027J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	U	.025	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.0035J	.02	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.0018J	.0041J	0.01
Styrene	U	U	.0021J	0.01
m&p-Xylene	U	.00319568J	.01079951	0.01
o-Xylene	U	.00108894J	.00322963J	0.01
Date Received		02/19/99	02/19/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/25/99	02/25/99	02/25/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0358A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP 9 0218B			
Lab Sample I.D.	990358A-09			Quant.
Method Blank I.D.	VBLKME			Limits
Quant. Factor	1.00			with no
				Dilution
Chloromethane	U			0.02
Bromomethane	U			0.02
Vinyl Chloride	U			0.02
Chloroethane	U			0.02
Methylene Chloride	.015			0.01
Carbon Disulfide	.0044J			0.01
1,1-Dichloroethene	U			0.01
1,1-Dichloroethane	U			0.01
1,2-Dichloroethene (trans)	U			0.01
1,2-Dichloroethene (cis)	U			0.01
Chloroform	U			0.01
1,2-Dichloroethane	U			0.01
1,1,1-Trichloroethane	U			0.01
Carbon Tetrachloride	U			0.01
Bromodichloromethane	U			0.01
1,2-Dichloropropane	U			0.01
trans-1,3-Dichloropropene	U			0.01
1,1,2-Trichloroethane	U			0.01
Benzene	.0013J			0.01
trans-1,3-Dichloropropene	U			0.01
Bromoform	U			0.01
Tetrachloroethene	.001J			0.01
1,1,2,2-Tetrachloroethane	U			0.01
Toluene	.0036J			0.01
Chlorobenzene	U			0.01
Ethylbenzene	U			0.01
Styrene	U			0.01
m&p-Xylene	.00275137J			0.01
o-Xylene	U			0.01
Date Received	02/19/99			
Date Extracted	N/A			
Date Analyzed	02/25/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.2
7099-0358A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

lient Sample I.D.	Method Blank	SMP 7 0218A	SMP 8 0218A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKMF	990358A-01	990358A-02	
Method Blank I.D.	VBLKMF	VBLKMF	VBLKMF	
Quant. Factor	1.00	20.0	5.00	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.032J	.035J	0.01
Carbon Disulfide	U	U	.006J	0.01
1,1-Dichloroethene	U	U	.012J	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.022J	.0165J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
1,3-Dichloropropane	U	U	U	0.01
Chloroethene	U	U	.65	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	.038J	.008J	0.01
Trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	4.4	.55	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		02/19/99	02/19/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/26/99	02/26/99	02/26/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.3
7099-0358A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP 2 0218B	SMP 4 0218B	SMP 7 0218B	Quant. Limits with no Dilution
Lab Sample I.D.	990358A-05	990358A-06	990358A-07	
Method Blank I.D.	VBLKMF	VBLKMF	VBLKMF	
Quant. Factor	16.7	20.0	20.0	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.09333333J	U	U	0.01
Carbon Disulfide	.03166667J	U	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	.03666667J	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
2-Dichloropropane	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	.03333333J	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	3.3	3.4	2	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.022J	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received	02/19/99	02/19/99	02/19/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/26/99	02/26/99	02/26/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.4
7099-0358A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP 8 0218B			
Lab Sample I.D.	990358A-08			Quant. Limits
Method Blank I.D.	VBKMF			with no
Quant. Factor	5.00			Dilution
Chloromethane	U			0.02
Bromomethane	U			0.02
Vinyl Chloride	U			0.02
Chloroethane	U			0.02
Methylene Chloride	.042J			0.01
Carbon Disulfide	.013J			0.01
1,1-Dichloroethene	U			0.01
1,1-Dichloroethane	U			0.01
1,2-Dichloroethene (trans)	U			0.01
1,2-Dichloroethene (cis)	U			0.01
Chloroform	U			0.01
1,2-Dichloroethane	U			0.01
1,1,1-Trichloroethane	.0255J			0.01
Carbon Tetrachloride	U			0.01
Bromodichloromethane	U			0.01
1,2-Dichloropropane	U			0.01
is-1,3-Dichloropropene	U			0.01
richloroethene	U			0.01
Dibromochloromethane	U			0.01
1,1,2-Trichloroethane	U			0.01
Benzene	U			0.01
trans-1,3-Dichloropropene	U			0.01
Bromoform	U			0.01
Tetrachloroethene	.5			0.01
1,1,2,2-Tetrachloroethane	U			0.01
Toluene	.0065J			0.01
Chlorobenzene	U			0.01
Ethylbenzene	U			0.01
Styrene	U			0.01
m&p-Xylene	U			0.01
o-Xylene	U			0.01
Date Received	02/19/99			
Date Extracted	N/A			
Date Analyzed	02/26/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.4
7099-0408A
LEGGETTE, BRASHEARS & GRAHAM
- T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP2 0225A	SMP8 0225A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKMH	990408A-02	990408A-05	
Method Blank I.D.	VBLKMH	VBLKMH	VBLKMH	
Quant. Factor	1.00	100.	1.25	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.17J	.009125J	0.01
Carbon Disulfide	U	.05180523J	.00625J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.37J	.02125	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.09311704J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	172.47	.325 0.047	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	.0175	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	.002375J	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	.00461234J	0.01
o-Xylene	U	U	.0012652J	0.01
Date Received		02/26/99	02/26/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/01/99	03/01/99	03/01/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.0
7099-0408A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP1 0225A	SMP9 0225A	Quant. Limits with no Dilution
Lab Sample I.D.	VBKMF	990408A-01	990408A-06	
Method Blank I.D.	VBKMF	VBKMF	VBKMF	
Quant. Factor	1.00	1.00	1.00	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	.0014J	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.014	.016	0.01
Carbon Disulfide	U	.0063J	.0061J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.0081J	U	0.01
Carbon Tetrachloride	U	.0015J	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.0018J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	.0021J	.0013J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	.05 (0.007)	.0026J 0.0038	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.018	.0031J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.0034J	.0006089J	0.01
Styrene	U	.0022J	.00051842J	0.01
m&p-Xylene	U	.00943009J	.00200126J	0.01
o-Xylene	U	.00286823J	.00070003J	0.01
Date Received		02/26/99	02/26/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/26/99	02/26/99	02/26/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.2
7099-0408A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP4 0225A	SMP7 0225A	Quant. Limits with no Dilution
Lab Sample I.D.	VLKMG	990408A-03	990408A-04	
Method Blank I.D.	VLKMG	VLKMG	VLKMG	
Quant. Factor	1.00	20.0	20.0	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	.06J	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	.06J	0.01
Carbon Disulfide	U	U	.01753809J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	.086J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	.024J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	.01349007J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	8.2 / 1.4	6.8 0.997	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		02/26/99	02/26/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	02/27/99	02/27/99	02/27/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0408A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP1 0225B	SMP9 0225B		Quant. Limits with no Dilution
Lab Sample I.D.	990408A-07	990408A-12		
Method Blank I.D.	VBKMF	VBKMF		
Quant. Factor	1.00	1.00		
Chloromethane	U	U		0.02
Bromomethane	.0019J	.016J		0.02
Vinyl Chloride	U	U		0.02
Chloroethane	U	U		0.02
Methylene Chloride	.12	.016		0.01
Carbon Disulfide	.0057J	.0076J		0.01
1,1-Dichloroethene	U	U		0.01
1,1-Dichloroethane	U	U		0.01
1,2-Dichloroethene (trans)	U	U		0.01
1,2-Dichloroethene (cis)	U	U		0.01
Chloroform	U	U		0.01
1,2-Dichloroethane	U	U		0.01
1,1,1-Trichloroethane	.011	U		0.01
Carbon Tetrachloride	.0014J	U		0.01
Bromodichloromethane	U	U		0.01
1,2-Dichloropropane	U	U		0.01
cis-1,3-Dichloropropene	U	U		0.01
Trichloroethene	.0018J	U		0.01
Dibromochloromethane	U	U		0.01
1,1,2-Trichloroethane	U	U		0.01
Benzene	.0028J	U		0.01
trans-1,3-Dichloropropene	U	U		0.01
Bromoform	U	U		0.01
Tetrachloroethene	.026 0.0038	.021 0.003		0.01
1,1,2,2-Tetrachloroethane	U	U		0.01
Toluene	.019	U		0.01
Chlorobenzene	U	U		0.01
Ethylbenzene	.0037J	U		0.01
Styrene	.0022J	.002J		0.01
m&p-Xylene	.01088183	U		0.01
o-Xylene	.00344977J	U		0.01
Date Received	02/26/99	02/26/99		
Date Extracted	N/A	N/A		
Date Analyzed	02/26/99	02/26/99		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.3
7099-0408A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0225B			
Lab Sample I.D.	990408A-10			Quant.
Method Blank I.D.	VBLKMG			Limits
Quant. Factor	40.0			with no
				Dilution
Chloromethane	U			0.02
Bromomethane	U			0.02
Vinyl Chloride	U			0.02
Chloroethane	U			0.02
Methylene Chloride	.052J			0.01
Carbon Disulfide	U			0.01
1,1-Dichloroethene	U			0.01
1,1-Dichloroethane	U			0.01
1,2-Dichloroethene (trans)	U			0.01
1,2-Dichloroethene (cis)	U			0.01
Chloroform	U			0.01
1,2-Dichloroethane	U			0.01
1,1,1-Trichloroethane	.08J			0.01
Carbon Tetrachloride	U			0.01
Bromodichloromethane	U			0.01
1,2-Dichloropropane	U			0.01
cis-1,3-Dichloropropene	U			0.01
Trichloroethene	U			0.01
Dibromochloromethane	U			0.01
1,1,2-Trichloroethane	U			0.01
Benzene	U			0.01
trans-1,3-Dichloropropene	U			0.01
Bromoform	U			0.01
Tetrachloroethene	18			0.01
1,1,2,2-Tetrachloroethane	U			0.01
Toluene	U			0.01
Chlorobenzene	U			0.01
Ethylbenzene	U			0.01
Styrene	U			0.01
m&p-Xylene	U			0.01
o-Xylene	U			0.01
Date Received	02/26/99			
Date Extracted	N/A			
Date Analyzed	02/27/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.5
7099-0408A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP3 0225B	SMP4 0225B	SMP8 0225B	Quant. Limits with no Dilution
Lab Sample I.D.	990408A-08	990408A-09	990408A-11	
Method Blank I.D.	VELKMH	VELKMH	VELKMH	
Quant. Factor	200.	40.0	1.25	
Chloromethane	U	U	.0175J	0.02
Bromomethane	.46J	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.52J	.152J	.00575J	0.01
Carbon Disulfide	.24J	.052J	.00575J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	.3J	U	.01075J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.0168407J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	.004J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	54	8	.4	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	.00975J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	.0015J	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	.0035892J	0.01
o-Xylene	U	U	.00084854J	0.01
Date Received	02/26/99	02/26/99	02/26/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/01/99	03/01/99	03/01/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

STL

CORRECTIVE ACTION FORM

A. Originator Information

Client Inquiry _____

Client: LBGJob/Case: 990478ADate/time: 3/14/99 14:30Sample Number(s): A-06 (SMP9 0304A)Client/Lab Contact: D. Humbert

Date/Time Response Due: _____

Detailed Description of Potential Problem: Sample SMP9 0304A was analyzed without
internal standard and surrogate due to analyst error. Only 1 bag was
sent for analysis, no sample remains for re-run.

D. Humbert
3/14/99

B. Quality Assurance Information

Corrective Action ID# _____

Recommended Corrective Action: Cancel sample, or report using "EXTERNAL
STANDARDS" - CONTACT CLIENT

Groups Involved:

☐ Sample Control☐ Wet Chemistry☐ Metals☐ Gas Chromatography☐ Mass Spectrometry☐ Report Generation☒ Client Service☐ Sample Preparation☐ Systems☐ Subcontractor

C. Final Resolution

Describe What Happened and Corrective Action Taken: _____

Supervisor Signature: _____

Date: _____

Date/Time Client Notified: _____

D. Quality Assurance Final Approval (QA Manager use only)

Corrective Action Approved: _____

Date Finalized: _____

TABLE VO-1.0
7099-0478A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP1 0304A	SMP7 0304A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKM5	990478A-01	990478A-04	
Method Blank I.D.	VBLKM5	VBLKM5	VBLKM5	
Quant. Factor	1.00	1.00	40.0	
Chloromethane	.0086J	.012JB	.76JB	0.02
Bromomethane	.013J	.015JB	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	2.2	0.01
Carbon Disulfide	U	U	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.0037J	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.00087851J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.001J	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	.015	6.8	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.0097J	.228J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.0013J	.02805966J	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	.0049632J	.19323917J	0.01
o-Xylene	U	.00204104J	.06184061J	0.01
Date Received		03/05/99	03/05/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/14/99	03/14/99	03/14/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.3
7099-0478A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP3 0304A	SMP4 0304A	Quant. Limits with no Dilution
Lab Sample I.D.	VELKM6	990478A-02	990478A-03	
Method Blank I.D.	VELKM6	VELKM6	VELKM6	
Quant. Factor	1.00	40.0	10.0	
Chloromethane	.0085J	U	U	0.02
Bromomethane	.006J	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.6	.16	0.01
Carbon Disulfide	U	U	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.072J	.018J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.03101975J	.018J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	21E	2.4	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.172J	.034J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.04J	.00460901J	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	.17026024J	.02607874J	0.01
o-Xylene	U	.04447927J	.0069862J	0.01
Date Received		03/05/99	03/05/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/15/99	03/15/99	03/15/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0478A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP8 0304A	SMP1 0304B	SMP2 0304B	Quant. Limits with no Dilution
Lab Sample I.D.	990478A-05	990478A-07	990478A-08	
Method Blank I.D.	VBKMS	VBKMS	VBKMS	
Quant. Factor	1.00	1.00	100.	
Chloromethane	.019JB	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.006J	U	1.3	0.01
Carbon Disulfide	U	U	U	0.01
1,1-Dichloroethane	U	.0044J	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	.0052J	.046	.16J	0.01
Carbon Tetrachloride	U	.00081772J	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	.00040042J	.0029J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.0051JB	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	.24	.11	.13	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.0023J	.015	.31J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	.00030897J	.0028J	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	.00139687J	.00566056J	.23993457J	0.01
o-Xylene	.00075256J	.00335466J	.05102276J	0.01
Date Received	03/05/99	03/05/99	03/05/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/14/99	03/14/99	03/14/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.2
7099-0478A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP8 0304B	SMP9 0304B		Quant. Limits with no Dilution
Lab Sample I.D.	990478A-11	990478A-12		
Method Blank I.D.	VBLKM5	VBLKM5		
Quant. Factor	1.00	1.00		
Chloromethane	.0082JB	U		0.02
Bromomethane	U	U		0.02
Vinyl Chloride	U	U		0.02
Chloroethane	U	U		0.02
Methylene Chloride	.005J	.048		0.01
Carbon Disulfide	.0085J	.0072J		0.01
1,1-Dichloroethane	.00070514J	U		0.01
1,1-Dichloroethane	U	U		0.01
1,2-Dichloroethane (trans)	U	U		0.01
1,2-Dichloroethane (cis)	U	U		0.01
Chloroform	U	U		0.01
1,2-Dichloroethane	U	U		0.01
1,1,1-Trichloroethane	.0095J	U		0.01
Carbon Tetrachloride	U	U		0.01
Bromodichloromethane	U	U		0.01
1,2-Dichloropropane	U	U		0.01
cis-1,3-Dichloropropene	U	U		0.01
Trichloroethene	U	U		0.01
Dibromochloromethane	U	U		0.01
1,1,2-Trichloroethane	U	U		0.01
Benzene	U	.0025JB		0.01
trans-1,3-Dichloropropene	U	U		0.01
Bromoform	U	U		0.01
Tetrachloroethane	.25	.003J		0.01
1,1,2,2-Tetrachloroethane	U	U		0.01
Toluene	.0032J	U		0.01
Chlorobenzene	U	U		0.01
Ethylbenzene	.00044418J	.0022J		0.01
Styrene	U	U		0.01
m,p-Xylene	.00229076J	.00773912J		0.01
o-Xylene	.00112595J	.00317589J		0.01
Date Received	03/05/99	03/05/99		
Date Extracted	N/A	N/A		
Date Analyzed	03/14/99	03/14/99		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

TABLE VO-1.4
7099-0478A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP3 0304B	SMP7 0304B		Quant. Limits with no Dilution
Lab Sample I.D.	990478A-09	990478A-10		
Method Blank I.D.	VBLKM6	VBLKM6		
Quant. Factor	5.00	10.0		
Chloromethane	U	U		0.02
Bromomethane	.039JB	U		0.02
Vinyl Chloride	U	U		0.02
Chloroethane	U	U		0.02
Methylene Chloride	.7	.29		0.01
Carbon Disulfide	.0295J	.029J		0.01
1,1-Dichloroethene	U	U		0.01
1,1-Dichloroethane	U	U		0.01
1,2-Dichloroethene (trans)	U	U		0.01
1,2-Dichloroethene (cis)	U	U		0.01
Chloroform	U	U		0.01
1,2-Dichloroethane	U	U		0.01
1,1,1-Trichloroethane	.0175J	.063J		0.01
Carbon Tetrachloride	U	U		0.01
Bromodichloromethane	U	U		0.01
1,2-Dichloropropane	U	U		0.01
cis-1,3-Dichloropropene	U	U		0.01
Trichloroethene	.0024056J	.0040099J		0.01
Dibromochloromethane	U	U		0.01
1,1,2-Trichloroethane	U	U		0.01
Benzene	.0405J	U		0.01
trans-1,3-Dichloropropene	U	U		0.01
Bromoform	U	U		0.01
Tetrachloroethene	.6	3.7		0.01
1,1,2,2-Tetrachloroethane	U	U		0.01
Toluene	.315	.043J		0.01
Chlorobenzene	U	U		0.01
Ethylbenzene	.09	.01J		0.01
Styrene	U	U		0.01
m,p-Xylene	.33070652	.03916885J		0.01
o-Xylene	.1146661	.01193726J		0.01
Date Received	03/05/99	03/05/99		
Date Extracted	N/A	N/A		
Date Analyzed	03/15/99	03/15/99		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.0
7099-0533A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP1 0311A	SMP2 0311A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKM7	990533A-01	990533A-02	
Method Blank I.D.	VBLKM7	VBLKM7	VBLKM7	
Quant. Factor	1.00	1.00	100.	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.0023J	.012B	U	0.01
Carbon Disulfide	U	.0073J	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.0059J	U	0.01
Carbon Tetrachloride	U	.00089252J	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.0026J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.0012J	.0022JB	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	.066	13	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.024	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.0058J	U	0.01
Styrene	U	.0023J	U	0.01
m&p-Xylene	U	.0141664	U	0.01
o-Xylene	U	.0038098J	U	0.01
Date Received		03/12/99	03/12/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/16/99	03/16/99	03/16/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0533A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP3 0311A	SMP7 0311A	SMP8 0311A	Quant. Limits with no Dilution
Lab Sample I.D.	990533A-03	990533A-04	990533A-05	
Method Blank I.D.	VBKLM7	VBKLM7	VBKLM7	
Quant. Factor	20.0	40.0	1.00	
Chloromethane	U	.4J	.0088J	0.02
Bromomethane	U	U	.0034J	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.22JB	.0067JB	0.01
Carbon Disulfide	U	U	.0082J	0.01
1,1-Dichloroethene	U	U	.0019J	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	.033	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	.00099164J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	.0022J	0.01
Benzene	U	.116JB	.0012JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	6.2	4.8	.46	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.0155783J	U	.0033J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	.00080553J	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	.0025487J	0.01
o-Xylene	U	U	.00078454J	0.01
Date Received	03/12/99	03/12/99	03/12/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/16/99	03/16/99	03/16/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.2
7099-0533A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP9 0311A	SMP2 0311B	SMP4 0311B	Quant. Limits with no Dilution
Lab Sample I.D.	990533A-06	990533A-07	990533A-08	
Method Blank I.D.	VBLKM7	VBLKM7	VBLKM7	
Quant. Factor	1.00	20.0	20.0	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.0087JB	.06JB	.082JB	0.01
Carbon Disulfide	.0082J	U	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.046J	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.048J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	.0025J	6.6	4.4	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.0036J	.03J	.028J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	.00090928J	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	.00249686J	U	U	0.01
o-Xylene	.00070795J	U	U	0.01
Date Received	03/12/99	03/12/99	03/12/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/16/99	03/16/99	03/16/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.3
7099-0533A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0311B	SMP8 0311B	SMP9 0311B	Quant. Limits with no Dilution
Lab Sample I.D.	990533A-09	990533A-10	990533A-11	
Method Blank I.D.	VLKM7	VLKM7	VLKM7	
Quant. Factor	10.0	1.00	1.00	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.057JB	.022B	.085B	0.01
Carbon Disulfide	U	.0062J	.0063J	0.01
1,1-Dichloroethene	U	.0029J	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	.039J	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	.015J	.042	.0016J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	.02J	.0012J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	.0015JB	.0012JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	2.9	.46	.022	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.012J	.0088J	.0097J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.00079724J	.0013J	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	.00268049J	.00331517J	0.01
o-Xylene	U	.00078831J	.00105122J	0.01
Date Received	03/12/99	03/12/99	03/12/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/16/99	03/16/99	03/16/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.4
7099-0533A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP10 0311B		Quant. Limits with no Dilution
Lab Sample I.D.	VBLKME	990533A-12		
Method Blank I.D.	VBLKME	VBLKME		
Quant. Factor	1.00	1.00		
Chloromethane	.01J	U		0.02
Bromomethane	.014J	.042B		0.02
Vinyl Chloride	U	U		0.02
Chloroethane	U	U		0.02
Methylene Chloride	.0045J	.029B		0.01
Carbon Disulfide	U	.014		0.01
1,1-Dichloroethene	U	.0083J		0.01
1,1-Dichloroethane	U	.037		0.01
1,2-Dichloroethene (trans)	U	.053		0.01
1,2-Dichloroethene (cis)	U	1.9E		0.01
Chloroform	U	U		0.01
1,2-Dichloroethane	U	U		0.01
1,1,1-Trichloroethane	U	.088		0.01
Carbon Tetrachloride	U	U		0.01
Bromodichloromethane	U	U		0.01
1,2-Dichloropropane	U	U		0.01
cis-1,3-Dichloropropene	U	U		0.01
Trichloroethene	U	.22		0.01
Dibromochloromethane	U	U		0.01
1,1,2-Trichloroethane	U	U		0.01
Benzene	U	.0053J		0.01
trans-1,3-Dichloropropene	U	U		0.01
Bromoform	U	U		0.01
Tetrachloroethene	U	6.8E		0.01
1,1,2,2-Tetrachloroethane	U	U		0.01
Toluene	U	.11		0.01
Chlorobenzene	U	U		0.01
Ethylbenzene	U	.0059J		0.01
Styrene	U	U		0.01
m&p-Xylene	U	.01671361		0.01
o-Xylene	U	.00671297J		0.01
Date Received		03/12/99		
Date Extracted	N/A	N/A		
Date Analyzed	03/17/99	03/17/99		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.0
7099-0586A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP2 0318A	SMP4 0318A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKML	990586A-01	990586A-02	
Method Blank I.D.	VBLKML	VBLKML	VBLKML	
Quant. Factor	1.00	33.3	10.0	
Chloromethane	.01J	.16333333JB	.051JB	0.02
Bromomethane	.0065J	.13333333JB	.056JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.86666667	.059J	0.01
Carbon Disulfide	U	U	.021J	0.01
1,1-Dichloroethane	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.16333333J	.017J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethane	U	.04J	.00629973J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.001J	.01889309JB	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethane	U	8.7	4.4	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.03666667J	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		03/19/99	03/19/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/25/99	03/25/99	03/25/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0586A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0318A	SMP8 0318A	SMP9 0318A	Quant. Limits with no Dilution
Lab Sample I.D.	990586A-03	990586A-04	990586A-05	
Method Blank I.D.	VBLKM1	VBLKM1	VBLKM1	
Quant. Factor	40.0	1.00	1.00	
Chloromethane	.224JB	.0099JB	.01JB	0.02
Bromomethane	.204JB	.0045JB	.0045JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.88	.0062J	.024	0.01
Carbon Disulfide	.06J	.0042J	.0043J	0.01
1,1-Dichloroethane	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.054	U	0.01
Carbon Tetrachloride	U	.0012J	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.001J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	.0014J	U	0.01
Benzene	U	U	.00097439JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	4.4	.35	.0058J	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.0019J	.0029J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	U	.00158769J	0.01
o-Xylene	U	U	.00034549J	0.01
Date Received	03/19/99	03/19/99	03/19/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/25/99	03/25/99	03/25/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.0
7099-0646A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP2 0325A	SMP4 0325A	Quant. Limits with no Dilution
Lab Sample I.D.	VB LKM2	990646A-01	990646A-02	
Method Blank I.D.	VB LKM2	VB LKM2	VB LKM2	
Quant. Factor	1.00	33.3	10.0	
Chloromethane	.01J	.22JB	.27B	0.02
Bromomethane	.0078J	.22666667JB	.057JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.00073441J	.13333333JB	.044JB	0.01
Carbon Disulfide	U	.06333333J	.00551018J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.11333333J	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.03666667J	.035J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.0009181J	.01552707JB	.024JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	12	3.4	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	.017J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		03/26/99	03/26/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/26/99	03/26/99	03/26/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0646A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0325A	SMP8 0325A	SMP9 0325A	Quant. Limits with no Dilution
Lab Sample I.D.	990646A-03	990646A-04	990646A-05	
Method Blank I.D.	VBLKM2	VBLKM2	VBLKM2	
Quant. Factor	13.3	1.00	1.00	
Chloromethane	.08933333JB	.0095JB	.0094JB	0.02
Bromomethane	.06133333JB	.0065JB	.0068JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.075B	.0064JB	0.01
Carbon Disulfide	.01210954J	.0058J	.0055J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	.0011J	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	.016J	.0079J	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	.00653356J	.00045738J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.00733039JB	.001JB	.00074892JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	3.1	.29	.0084J	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.0046J	.0024J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.0011J	U	0.01
Styrene	U	U	.00078668J	0.01
m&p-Xylene	U	.00231539J	.00057167J	0.01
o-Xylene	U	.00069961J	U	0.01
Date Received	03/26/99	03/26/99	03/26/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/26/99	03/26/99	03/26/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.2
7099-0646A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP3 0325B	SMP4 0325B	SMP7 0325B	Quant. Limits with no Dilution
Lab Sample I.D.	990646A-06	990646A-07	990646A-08	
Method Blank I.D.	VBLKM2	VBLKM2	VBLKM2	
Quant. Factor	125.	10.0	50.0	
Chloromethane	.8625JB	.061JB	.265JB	0.02
Bromomethane	.425JB	.042JB	.185JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	4.4B	.032JB	.125JB	0.01
Carbon Disulfide	.175J	U	.04328093J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	.06265183J	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.019J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.05816068JB	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	20	4.3	9	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received	03/26/99	03/26/99	03/26/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	03/26/99	03/26/99	03/26/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.3
7099-0646A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP8 0325B	SMP9 0325B		Quant. Limits with no Dilution
Lab Sample I.D.	990646A-09	990646A-10		
Method Blank I.D.	VBLKM2	VBLKM2		
Quant. Factor	1.00	1.00		
Chloromethane	.01JB	.0081JB		0.02
Bromomethane	.0066JB	.0052JB		0.02
Vinyl Chloride	U	U		0.02
Chloroethane	U	U		0.02
Methylene Chloride	.0044JB	.0031JB		0.01
Carbon Disulfide	.0071J	.0039J		0.01
1,1-Dichloroethene	U	U		0.01
1,1-Dichloroethane	U	U		0.01
1,2-Dichloroethene (trans)	U	U		0.01
1,2-Dichloroethene (cis)	U	U		0.01
Chloroform	U	U		0.01
1,2-Dichloroethane	U	U		0.01
1,1,1-Trichloroethane	.019	U		0.01
Carbon Tetrachloride	U	U		0.01
Bromodichloromethane	U	U		0.01
1,2-Dichloropropane	U	U		0.01
cis-1,3-Dichloropropene	U	U		0.01
Trichloroethene	U	U		0.01
Dibromochloromethane	U	U		0.01
1,1,2-Trichloroethane	U	U		0.01
Benzene	.00075386JB	.00079809JB		0.01
trans-1,3-Dichloropropene	U	U		0.01
Bromoform	U	U		0.01
Tetrachloroethene	.16	.0073J		0.01
1,1,2,2-Tetrachloroethane	U	U		0.01
Toluene	.0023J	.0021J		0.01
Chlorobenzene	U	U		0.01
Ethylbenzene	U	U		0.01
Styrene	U	.0012J		0.01
m&p-Xylene	.0018423J	.00125029J		0.01
o-Xylene	.00055615J	U		0.01
Date Received	03/26/99	03/26/99		
Date Extracted	N/A	N/A		
Date Analyzed	03/26/99	03/26/99		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.0
7099-0711A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP2 0401A	SMP3 0401A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKMO	990711A-01	990711A-02	
Method Blank I.D.	VBLKMO	VBLKMO	VBLKMO	
Quant. Factor	1.00	33.3	20.0	
Chloromethane	.013J	.43333333JB	.172JB	0.02
Bromomethane	.012J	.66666667B	.28JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.0013J	2B	.58B	0.01
Carbon Disulfide	U	U	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.5	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.0031J	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	43E	5.2	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.04333333J	.028J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		04/01/99	04/01/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/08/99	04/08/99	04/08/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0711A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0401A	SMP8 0401A	SMP9 0401A	Quant. Limits with no Dilution
Lab Sample I.D.	990711A-03	990711A-04	990711A-05	
Method Blank I.D.	VBKMO	VBKMO	VBKMO	
Quant. Factor	13.3	1.00	1.00	
Chloromethane	.17333333JB	.016JB	U	0.02
Bromomethane	.21333333JB	.015JB	.016JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.50666667B	.068B	.051B	0.01
Carbon Disulfide	U	.012	.017	0.01
1,1-Dichloroethane	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	.13333333	.02	.0022J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	.0032J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	.0028JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	13E	.39	.018	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.02133333J	.007J	.018	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	.0019J	0.01
m&p-Xylene	U	.00234754J	.00170522J	0.01
o-Xylene	U	U	U	0.01
Date Received	04/01/99	04/01/99	04/01/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/08/99	04/08/99	04/08/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

Air

TABLE VO-1.0
7099-0771A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP2 0408A	SMP3 0408A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKMP	990771A-01	990771A-02	
Method Blank I.D.	VBLKMP	VBLKMP	VBLKMP	
Quant. Factor	1.00	66.7	20.0	
Chloromethane	.014J	U	.116JB	0.02
Bromomethane	.014J	.38666667JB	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	.124J	0.01
Carbon Disulfide	U	U	.032J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.11333333J	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	.01118433J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	17	8.2	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	.022J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		04/08/99	04/08/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/09/99	04/09/99	04/09/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0771A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0408A	SMP8 0408A	SMP9 0408A	Quant. Limits with no Dilution
Lab Sample I.D.	990771A-03	990771A-04	990771A-05	
Method Blank I.D.	VELKMP	VELKMP	VELKMP	
Quant. Factor	66.7	1.00	1.00	
Chloromethane	U	.017JB	.035B	0.02
Bromomethane	.48JB	.011JB	.013JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.11333333J	.23	.048	0.01
Carbon Disulfide	U	.028	.015	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.033	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.0036J	.015	0.01
Dibromochloromethane	U	.0026J	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	.0032J	.0073J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethane	7.3	1E	.036	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.031	.029	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.0041J	.0039J	0.01
Styrene	U	.0015J	.049	0.01
m,p-Xylene	U	.00744786J	.00888055J	0.01
o-Xylene	U	.00173448J	.00211594J	0.01
Date Received	04/08/99	04/08/99	04/08/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/09/99	04/09/99	04/09/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

TABLE VO-1.3
7099-0771A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP2 0408B	SMP4 0408B	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKMQ	990771A-06	990771A-07	
Method Blank I.D.	VBLKMQ	VBLKMQ	VBLKMQ	
Quant. Factor	1.00	40.0	40.0	
Chloromethane	.011J	.152JB	U	0.02
Bromomethane	.0036J	.14JB	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.084J	.08J	0.01
Carbon Disulfide	U	.02470264J	.06J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	.124J	U	0.01
Benzene	.0021J	.03433596JB	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethane	U	7.2	7.2	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	.052J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		04/08/99	04/08/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/09/99	04/09/99	04/09/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.2
7099-0771A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0408B	SMP8 0408B	SMP9 0408B	Quant. Limits with no Dilution
Lab Sample I.D.	990771A-08	990771A-09	990771A-10	
Method Blank I.D.	VBLKMP	VBLKMP	VBLKMP	
Quant. Factor	25.0	1.00	1.00	
Chloromethane	U	.013JB	.014JB	0.02
Bromomethane	.325JB	.0087JB	.011JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.8	.019	U	0.01
Carbon Disulfide	.1475J	.024	.019	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.026	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.003J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.02324486J	.0015J	.0021J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	5.5	.48	.015	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.022	.027	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	.00064892J	.0053J	0.01
m,p-Xylene	U	.00395923J	.00588478J	0.01
o-Xylene	U	.00086002J	.00166297J	0.01
Date Received	04/08/99	04/08/99	04/08/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/09/99	04/09/99	04/09/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.0
7099-0835A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP2 0415A	SMP4 0415A	Quant. Limits with no Dilution
Lab Sample I.D.	VLKMM	990835A-01	990835A-02	
Method Blank I.D.	VLKMM	VLKMM	VLKMM	
Quant. Factor	1.00	66.7	10.0	
Chloromethane	.018J	U	U	0.02
Bromomethane	.0074J	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	.15	0.01
Carbon Disulfide	U	U	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.0024J	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	6.7	2.5	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	U	U	0.01
o-Xylene	U	U	U	0.01
Date Received		04/15/99	04/15/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/25/99	04/25/99	04/25/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0835A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0415A	SMP8 0415A	SMP3 0415B	Quant. Limits with no Dilution
Lab Sample I.D.	990835A-03	990835A-04	990835A-06	
Method Blank I.D.	VBLKMM	VBLKMM	VBLKMM	
Quant. Factor	6.67	1.00	125.	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.046J	.043	U	0.01
Carbon Disulfide	U	.011	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.014	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	.016J	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	3.2	.38	30	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.00933333J	.013	U	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.001J	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	.00075902J	U	0.01
o-Xylene	U	U	U	0.01
Date Received	04/15/99	04/15/99	04/15/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/25/99	04/25/99	04/25/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.2
7099-0835A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP4 0415B	SMP7 0415B	SMP8 0415B	Quant. Limits with no Dilution
Lab Sample I.D.	990835A-07	990835A-08	990835A-09	
Method Blank I.D.	VELKMM	VELKMM	VELKMM	
Quant. Factor	40.0	25.0	1.00	
Chloromethane	U	U	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	2.2	.9	.02	0.01
Carbon Disulfide	U	U	U	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.045J	.02	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	.001JB	0.01
trans-1,3-Dichloropropene	U	U	.0047J	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	4.8	10	.15	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.0275J	.012	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	.00039071J	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	U	.00150424J	0.01
o-Xylene	U	U	U	0.01
Date Received	04/15/99	04/15/99	04/15/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/25/99	04/25/99	04/25/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.3
7099-0835A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP9 0415B			
Lab Sample I.D.	990835A-10			Quant.
Method Blank I.D.	VBLKMM			Limits
Quant. Factor	1.00			with no
				Dilution
Chloromethane	U			0.02
Bromomethane	U			0.02
Vinyl Chloride	U			0.02
Chloroethane	U			0.02
Methylene Chloride	.082			0.01
Carbon Disulfide	.014			0.01
1,1-Dichloroethene	U			0.01
1,1-Dichloroethane	U			0.01
1,2-Dichloroethene (trans)	U			0.01
1,2-Dichloroethene (cis)	U			0.01
Chloroform	U			0.01
1,2-Dichloroethane	U			0.01
1,1,1-Trichloroethane	U			0.01
Carbon Tetrachloride	U			0.01
Bromodichloromethane	U			0.01
1,2-Dichloropropane	U			0.01
cis-1,3-Dichloropropene	U			0.01
Trichloroethene	U			0.01
Dibromochloromethane	U			0.01
1,1,2-Trichloroethane	U			0.01
Benzene	.0035JB			0.01
trans-1,3-Dichloropropene	U			0.01
Bromoform	U			0.01
Tetrachloroethene	.0038J			0.01
1,1,2,2-Tetrachloroethane	U			0.01
Toluene	.012			0.01
Chlorobenzene	U			0.01
Ethylbenzene	U			0.01
Styrene	U			0.01
m,p-Xylene	.00128552J			0.01
o-Xylene	U			0.01
Date Received	04/15/99			
Date Extracted	N/A			
Date Analyzed	04/25/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

STL**CORRECTIVE ACTION FORM****A. Originator Information**

Client Inquiry _____

Client: LBGJob/Case: 99-0835ADate/time: 4-25-99Sample Number(s): A-05 SMP9 0415A

Client/Lab Contact: _____

Date/Time Response Due: _____

Detailed Description of Potential Problem: Sample SMP9 0415A (A-05) had no recoverable data. This sample leaked during analysis. Only one liter was supplied, therefore this couldn't be analyzed.

B. Quality Assurance InformationCorrective Action ID# 7813Recommended Corrective Action: Contact client. Cancel sample

Groups Involved: ☐ Sample Control ☐ Wet Chemistry ☐ Metals
☐ Gas Chromatography ☐ Mass Spectrometry ☐ Report Generation
☒ Client Service ☐ Sample Preparation ☐ Systems ☐ Subcontractor

C. Final Resolution

Describe What Happened and Corrective Action Taken: _____

Supervisor Signature: _____ Date: _____ Date/Time Client Notified: _____

D. Quality Assurance Final Approval (QA Manager use only)

Corrective Action Approved: _____

Date Finalized: _____

TABLE VO-1.0
7099-0907A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP3 0422A	SMP4 0422A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKMN	990907A-01	990907A-02	
Method Blank I.D.	VBLKMN	VBLKMN	VBLKMN	
Quant. Factor	1.00	1.00	1.11	
Chloromethane	.0081J	.0087JB	.00444444JB	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.086	.01777778	0.01
Carbon Disulfide	U	.0061J	.00822222J	0.01
1,1-Dichloroethene	U	.0052J	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.068	.01888889	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	.052	.02555556	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	.082	U	0.01
Benzene	.0011J	.0031JB	.00111111JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	11E	2.4E	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.0068J	.01333333	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.0013J	.00111111J	0.01
Styrene	U	.00087473J	.00244444J	0.01
m&p-Xylene	U	.00360025J	.00658176J	0.01
o-Xylene	U	.00083587J	.00236535J	0.01
Date Received		04/22/99	04/22/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/26/99	04/26/99	04/26/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.1
7099-0907A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0422A	SMP8 0422A	SMP9 0422A	Quant. Limits with no Dilution
Lab Sample I.D.	990907A-03	990907A-04	990907A-05	
Method Blank I.D.	VBKMN	VBKMN	VBKMN	
Quant. Factor	13.3	1.00	1.00	
Chloromethane	.03733333JB	.0052JB	U	0.02
Bromomethane	U	.0048J	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.04266667J	.01	.0095J	0.01
Carbon Disulfide	U	.0034J	.007J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.037	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	.00053184JB	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	4	.2	.024	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.0049J	.0087J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	.00158572J	.00268107J	0.01
o-Xylene	U	U	U	0.01
Date Received	04/22/99	04/22/99	04/22/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/26/99	04/26/99	04/26/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.2
7099-0907A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP2 0422B	SMP7 0422B	SMP8 0422B	Quant. Limits with no Dilution
Lab Sample I.D.	990907A-06	990907A-08	990907A-09	
Method Blank I.D.	VBKMN	VBKMN	VBKMN	
Quant. Factor	40.0	25.0	1.00	
Chloromethane	.8B	.06JB	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.156J	U	.024	0.01
Carbon Disulfide	U	U	.0058J	0.01
1,1-Dichloroethene	U	U	.0045J	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	.108J	U	.035	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.1JB	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	9.2	3	.29	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.048J	U	.013	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m&p-Xylene	U	U	.00133291J	0.01
o-Xylene	U	U	U	0.01
Date Received	04/22/99	04/22/99	04/22/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/26/99	04/26/99	04/26/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.3
7099-0907A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP3 0422B	SMP9 0422B	Quant. Limits with no Dilution
Lab Sample I.D.	VELKMP	990907A-07	990907A-10	
Method Blank I.D.	VELKMP	VELKMP	VELKMP	
Quant. Factor	1.00	2.50	1.00	
Chloromethane	.01J	.0125JB	.0036JB	0.02
Bromomethane	U	.00925J	.0012J	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.025	.0081J	0.01
Carbon Disulfide	U	.00675J	.0051J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	.00160778J	.00032522J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	.325	.0026J	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.0275	.015	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	.006J	.00098352J	0.01
Styrene	U	.00325J	.001J	0.01
m&p-Xylene	U	.02067547J	.0024029J	0.01
o-Xylene	U	.00346552J	.00079781J	0.01
Date Received		04/22/99	04/22/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	04/27/99	04/27/99	04/27/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

STL**CORRECTIVE ACTION FORM****A. Originator Information**

Client Inquiry _____

Client: LBG - Rowe IndustJob/Case: 990907A-01Date/time: 4/26/99Sample Number(s): A-01 SMP3 0422AClient/Lab Contact: John Rowe

Date/Time Response Due: _____

Detailed Description of Potential Problem:

Sample was not diluted for calibration
limit of method. Entire sample of 1 liter Tedlar
bag was injected.

B. Quality Assurance Information

Corrective Action ID# _____

Recommended Corrective Action: Report Results with "E" flag NOTE IN C.N.

Groups Involved: ☐ Sample Control ☐ Wet Chemistry ☐ Metals
☐ Gas Chromatography ☐ Mass Spectrometry ☐ Report Generation
☐ Client Service ☐ Sample Preparation ☐ Systems ☐ Subcontractor

C. Final Resolution

Describe What Happened and Corrective Action Taken: _____

Supervisor Signature: _____ Date: _____ Date/Time Client Notified: _____

D. Quality Assurance Final Approval (QA Manager use only)

Corrective Action Approved: _____

Date Finalized: _____

TABLE VO-1.0
7099-0977A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP2 0429A	¹⁴ SMP ³ 0429A	Quant. Limits with no Dilution
Lab Sample I.D.	VLKMC	990977A-01	990977A-02	
Method Blank I.D.	VLKMC	VLKMC	VLKMC	
Quant. Factor	1.00	25.0	20.0	
Chloromethane	U	.055J	U	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	.2	0.01
Carbon Disulfide	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	.0675J	U	0.01
Benzene	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethane	U	3.8	2.2	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.02197046J	.026J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	U	.01382654J	0.01
o-Xylene	U	U	U	0.01
Date Received		04/30/99	04/30/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	05/06/99	05/06/99	05/06/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-0977A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0429A	SMP8 0429A	SMP9 0429A	Quant. Limits with no Dilution
Lab Sample I.D.	990977A-03	990977A-04	990977A-05	
Method Blank I.D.	VBLKMC	VBLKMC	VBLKMC	
Quant. Factor	13.3	1.00	1.00	
Chloromethane	.25333333J	.002J	.0015J	0.02
Bromomethane	U	.12	.084	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	.03066667J	.0043J	.0022J	0.01
Carbon Disulfide	U	.0015J	.0011J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.0078J	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	.01733333J	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	1.6	.097	.0086J	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.003J	.0041J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	.00055642J	U	0.01
o-Xylene	U	U	U	0.01
Date Received	04/30/99	04/30/99	04/30/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	05/06/99	05/06/99	05/06/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.2
7099-0977A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP2 0429B	SMP4 0429B	SMP8 0429B	Quant. Limits with no Dilution
Lab Sample I.D.	990977A-06	990977A-07	990977A-09	
Method Blank I.D.	VBLKMC	VBLKMC	VBLKMC	
Quant. Factor	40.0	40.0	1.00	
Chloromethane	.096J	U	.0055J	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	.0062J	0.01
Carbon Disulfide	U	U	.0019J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	.068J	U	.011	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethane	.16J	.0291239J	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	.144J	U	U	0.01
Benzene	.01831862J	U	.0004219J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	5.6	6.8	.05	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.096J	.068J	.0051J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	.05928388J	.01904381J	.00119408J	0.01
o-Xylene	U	U	U	0.01
Date Received	04/30/99	04/30/99	04/30/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	05/06/99	05/06/99	05/06/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.3
7099-0977A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP9 0429B			Quant. Limits with no Dilution
Lab Sample I.D.	990977A-10			
Method Blank I.D.	VBLKMC			
Quant. Factor	1.00			
Chloromethane	.0039J			0.02
Bromomethane	U			0.02
Vinyl Chloride	U			0.02
Chloroethane	U			0.02
Methylene Chloride	.0043J			0.01
Carbon Disulfide	.0012J			0.01
1,1-Dichloroethene	U			0.01
1,1-Dichloroethane	U			0.01
1,2-Dichloroethene (trans)	U			0.01
1,2-Dichloroethene (cis)	U			0.01
Chloroform	U			0.01
1,2-Dichloroethane	U			0.01
1,1,1-Trichloroethane	U			0.01
Carbon Tetrachloride	U			0.01
Bromodichloromethane	U			0.01
1,2-Dichloropropane	U			0.01
cis-1,3-Dichloropropene	U			0.01
Trichloroethene	U			0.01
Dibromochloromethane	U			0.01
1,1,2-Trichloroethane	U			0.01
Benzene	.0003002J			0.01
trans-1,3-Dichloropropene	U			0.01
Bromoform	U			0.01
Tetrachloroethene	.004J			0.01
1,1,2,2-Tetrachloroethane	U			0.01
Toluene	.0051J			0.01
Chlorobenzene	U			0.01
Ethylbenzene	U			0.01
Styrene	U			0.01
m,p-Xylene	.00067466J			0.01
o-Xylene	U			0.01
Date Received	04/30/99			
Date Extracted	N/A			
Date Analyzed	05/06/99			

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

TABLE VO-1.4
7099-0977A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP7 0429B		Quant. Limits with no Dilution
Lab Sample I.D.	VBLKMD	990977A-08		
Method Blank I.D.	VBLKMD	VBLKMD		
Quant. Factor	1.00	6.25		
Chloromethane	U	U		0.02
Bromomethane	U	U		0.02
Vinyl Chloride	U	U		0.02
Chloroethane	U	U		0.02
Methylene Chloride	U	.035625J		0.01
Carbon Disulfide	U	U		0.01
1,1-Dichloroethene	U	U		0.01
1,1-Dichloroethane	U	U		0.01
1,2-Dichloroethene (trans)	U	U		0.01
1,2-Dichloroethene (cis)	U	U		0.01
Chloroform	U	U		0.01
1,2-Dichloroethane	U	U		0.01
1,1,1-Trichloroethane	U	U		0.01
Carbon Tetrachloride	U	U		0.01
Bromodichloromethane	U	U		0.01
1,2-Dichloropropane	U	U		0.01
cis-1,3-Dichloropropene	U	U		0.01
Trichloroethene	U	.03125J		0.01
Dibromochloromethane	U	U		0.01
1,1,2-Trichloroethane	U	U		0.01
Benzene	U	U		0.01
trans-1,3-Dichloropropene	U	U		0.01
Bromoform	U	U		0.01
Tetrachloroethene	U	2.3		0.01
1,1,2,2-Tetrachloroethane	U	U		0.01
Toluene	U	.011875J		0.01
Chlorobenzene	U	U		0.01
Ethylbenzene	U	U		0.01
Styrene	U	U		0.01
m&p-Xylene	U	U		0.01
o-Xylene	U	U		0.01
Date Received		04/30/99		
Date Extracted	N/A	N/A		
Date Analyzed	05/07/99	05/07/99		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.0
7099-1031A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP3 0506A	SMP4 0506A	Quant. Limits with no Dilution
Lab Sample I.D.	VLKMD	991031A-01	991031A-02	
Method Blank I.D.	VLKMD	VLKMD	VLKMD	
Quant. Factor	1.00	66.7	8.00	
Chloromethane	U	U	U	0.02
Bromomethane	U	12J	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	.128	0.01
Carbon Disulfide	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.09333333J	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethane	U	U	.0216J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	23	3.4	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	.0304J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	U	.00864143J	0.01
o-Xylene	U	U	U	0.01
Date Received		05/06/99	05/06/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	05/07/99	05/07/99	05/07/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-1031A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0506A	SMP8 0506A	SMP9 0506A	Quant. Limits with no Dilution
Lab Sample I.D.	991031A-03	991031A-04	991031A-05	
Method Blank I.D.	VBLKMD	VBLKMD	VBLKMD	
Quant. Factor	28.6	1.00	1.00	
Chloromethane	U	.0042J	.013J	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.0077J	.043	0.01
Carbon Disulfide	U	.0026J	.0042J	0.01
1,1-Dichloroethane	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	.0011J	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	.032	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Benzene	U	U	.0019J	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethane	9.1	.25	.0083J	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	.02105647J	.015	.022	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	.0015J	0.01
Styrene	U	U	.00042886J	0.01
m,p-Xylene	U	.00170703J	.00371756J	0.01
o-Xylene	U	U	U	0.01
Date Received	05/06/99	05/06/99	05/06/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	05/07/99	05/07/99	05/07/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.0
7099-1077A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	Method Blank	SMP3 0513A	SMP4 0513A	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKMS	991077A-01	991077A-02	
Method Blank I.D.	VBLKMS	VBLKMS	VBLKMS	
Quant. Factor	1.00	66.7	8.00	
Chloromethane	.0093J	U	.0192JB	0.02
Bromomethane	.0076J	.44JB	.0208JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.73333333	U	0.01
Carbon Disulfide	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	U	U	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	.0104J	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	U	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	U	10	1.4	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	U	.0176J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	.0041J	U	U	0.01
m,p-Xylene	U	U	.00646039J	0.01
o-Xylene	U	U	U	0.01
Date Received		05/13/99	05/13/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	05/18/99	05/18/99	05/18/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1
7099-1077A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP7 0513A	SMP8 0513A	SMP9 0513A	Quant. Limits with no Dilution
Lab Sample I.D.	991077A-03	991077A-04	991077A-05	
Method Blank I.D.	VBLKMS	VBLKMS	VBLKMS	
Quant. Factor	28.6	1.00	1.00	
Chloromethane	U	.0026JB	.0051JB	0.02
Bromomethane	.05714286JB	.0044JB	.0037JB	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	.0065J	.004J	0.01
Carbon Disulfide	U	.0037J	.0059J	0.01
1,1-Dichloroethane	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethane (trans)	U	U	U	0.01
1,2-Dichloroethane (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	.0026J	0.01
1,1,1-Trichloroethane	U	.011	U	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	U	U	U	0.01
Benzene	U	.00064371J	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	4.3	.078	U	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.01	.012	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	.0036JB	0.01
m&p-Xylene	U	.00138632J	.00139273J	0.01
o-Xylene	U	U	U	0.01
Date Received	05/13/99	05/13/99	05/13/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	05/18/99	05/18/99	05/18/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

TABLE VO-1.2
7099-1077A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP2 0513B	SMP3 0513B	SMP7 0513B	Quant. Limits with no Dilution
Lab Sample I.D.	991077A-06	991077A-07	991077A-08	
Method Blank I.D.	VBLKMS	VBLKMS	VBLKMS	
Quant. Factor	40.0	2.50	6.25	
Chloromethane	.12JB	.00775JB	.019375JB	0.02
Bromomethane	U	U	U	0.02
Vinyl Chloride	U	U	U	0.02
Chloroethane	U	U	U	0.02
Methylene Chloride	U	U	.060625J	0.01
Carbon Disulfide	U	.00375J	.00443882J	0.01
1,1-Dichloroethene	U	U	U	0.01
1,1-Dichloroethane	U	U	U	0.01
1,2-Dichloroethene (trans)	U	U	U	0.01
1,2-Dichloroethene (cis)	U	U	U	0.01
Chloroform	U	U	U	0.01
1,2-Dichloroethane	U	U	U	0.01
1,1,1-Trichloroethane	.088J	U	.024375J	0.01
Carbon Tetrachloride	U	U	U	0.01
Bromodichloromethane	U	U	U	0.01
1,2-Dichloropropane	U	U	U	0.01
cis-1,3-Dichloropropene	U	U	U	0.01
Trichloroethene	U	U	U	0.01
Dibromochloromethane	U	U	U	0.01
1,1,2-Trichloroethane	.112J	U	U	0.01
Benzene	U	.00120586J	U	0.01
trans-1,3-Dichloropropene	U	U	U	0.01
Bromoform	U	U	U	0.01
Tetrachloroethene	5.2	.235	1.3	0.01
1,1,2,2-Tetrachloroethane	U	U	U	0.01
Toluene	U	.01875J	.011875J	0.01
Chlorobenzene	U	U	U	0.01
Ethylbenzene	U	U	U	0.01
Styrene	U	U	U	0.01
m,p-Xylene	U	.00839079J	U	0.01
o-Xylene	U	.00206744J	U	0.01
Date Received	05/13/99	05/13/99	05/13/99	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	05/18/99	05/18/99	05/18/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.3
7099-1077A
LEGGETTE, BRASHEARS & GRAHAM
T01/T02 VOLATILE ORGANICS

Air

All values are mg/M3.

Client Sample I.D.	SMP8 0513B	SMP9 0513B		Quant. Limits with no Dilution
Lab Sample I.D.	991077A-09	991077A-10		
Method Blank I.D.	VBLKMS	VBLKMS		
Quant. Factor	1.00	1.00		
Chloromethane	.0048JB	.0036JB		0.02
Bromomethane	U	U		0.02
Vinyl Chloride	U	U		0.02
Chloroethane	U	U		0.02
Methylene Chloride	.012	.0072J		0.01
Carbon Disulfide	.005J	.008J		0.01
1,1-Dichloroethane	U	U		0.01
1,1-Dichloroethane	U	U		0.01
1,2-Dichloroethane (trans)	U	U		0.01
1,2-Dichloroethane (cis)	U	U		0.01
Chloroform	U	U		0.01
1,2-Dichloroethane	.0025J	U		0.01
1,1,1-Trichloroethane	.015	U		0.01
Carbon Tetrachloride	U	U		0.01
Bromodichloromethane	U	U		0.01
1,2-Dichloropropane	U	U		0.01
cis-1,3-Dichloropropene	U	U		0.01
Trichloroethane	U	U		0.01
Dibromochloromethane	U	U		0.01
1,1,2-Trichloroethane	U	U		0.01
Benzene	.00051685J	U		0.01
trans-1,3-Dichloropropene	U	U		0.01
Bromoform	U	U		0.01
Tetrachloroethene	.12	U		0.01
1,1,2,2-Tetrachloroethane	U	U		0.01
Toluene	.012	.017		0.01
Chlorobenzene	U	U		0.01
Ethylbenzene	U	U		0.01
Styrene	U	.0024JB		0.01
m,p-Xylene	.00143466J	.00177524J		0.01
o-Xylene	U	U		0.01
Date Received	05/13/99	05/13/99		
Date Extracted	N/A	N/A		
Date Analyzed	05/18/99	05/18/99		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.



Sever Trent Laboratories

200 Monroe Turnpike
Monroe CT 06468

Tel: (203) 261-4458

Fax: (203) 268-5346

CHAIN OF CUSTODY RECORD

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OF

NO.

14

Committed To Your Success

STL JOB #:

CLIENT: **LBG**

PROJECT ID: **Rome Industries Site**

STL PROJECT MGR:

RUSH

☐

YES

☐

NO

DUE DATE **2/10 2/12/99**

TESTS

GENERAL REMARKS

T0-1 T0-2

BOTTLE TYPE AND PRESERVATION

FIELD FILTERED - CIRCLE Y or N

SAMPLE REMARKS

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	SAMPLE REMARKS
	SMP 7 0204A	2/4/99 10:10	A			X	+							
	SMP 8 0204A	2/4/99 10:10	A			X	+							
	SMP 9 0204A	2/4/99 10:11	A			X	+							
	SMP 1 0204B	2/4/99 12:31	A			X	+							
	SMP 3 0204B	2/4/99 12:31	A			X	+							
	SMP 4 0204B	2/4/99 12:28	A			X	+							
	SMP 7 0204B	2/4/99 12:25	A			X	+							
	SMP 8 0204B	2/4/99 12:25	A			X	+							
	SMP 9 0204B	2/4/99 12:26	A			X	+							

MATRIX CODES	BOTTLES PREPARED BY	DATE / TIME	BOTTLES REC'D BY	DATE / TIME	REMARKS ON SAMPLE RECEIPT
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	SIGNATURE		SIGNATURE		☐ BOTTLES INTACT ☐ CUSTODY SEALS ☐ PRESERVED ☐ SEALS INTACT ☐ CHILLED ☐ SEE REMARKS
SAMPLES COLLECTED BY		DATE / TIME	RECEIVED IN LAB BY		
SIGNATURE			SIGNATURE		
	Paul Tobmann	2/4/99	1501		

CLIENT COPY



Sev...ent...ator...
200 Monroe Turnpike
Monroe CT 06468
Tel: (203) 261-4458
Fax: (203) 268-5346

CHAIN OF CUSTODY RECORD

PAGE / OF / NO. 12

Committed To Your Success

STL JOB #:
CLIENT: **LBG**
PROJECT ID: **Rowe Industries**
STL PROJECT MGR:
RUSH ☐ YES ☐ NO DUE DATE **2/26/99**

TESTS								GENERAL REMARKS
10-1	10-2							
BOTTLE TYPE AND PRESERVATION								

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	SMP 7 0211 A	2/11/99	A		Y	X	X							
	SMP 8 0211 A	2/11/99	A		Y	X	X							
	SMP 9 0211 A	2/11/99	A		Y	X	X							
	SMP 1 0211 B	2/11/99	A		Y	X	X							
	SMP 2 0211 B	2/11/99	A		Y	X	X							
	SMP 3 0211 B	2/11/99	A		Y	X	X							
	SMP 7 0211 B	2/11/99	A		Y	X	X							
	SMP 8 0211 B	2/11/99	A		Y	X	X							
	SMP 9 0211 B	2/11/99	A		Y	X	X							

MATRIX CODES A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	BOTTLES PREPARED BY		DATE / TIME	BOTTLES REC'D BY		DATE / TIME	REMARKS ON SAMPLE RECEIPT ☐ BOTTLES INTACT ☐ PRESERVED ☐ CHILLED ☐ CUSTODY SEALS ☐ SEALS INTACT ☐ SEE REMARKS
	SIGNATURE			SIGNATURE			
	SAMPLES COLLECTED BY		DATE / TIME	RECEIVED IN LAB BY		DATE / TIME	
	SIGNATURE			SIGNATURE			

Paul Jabrann 2/11/99
Paul Jabrann 2/12/99 14:00



Severn Trent Laboratories
200 Monroe Turnpike
Monroe CT 06468

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CHAIN OF CUSTODY RECORD

PAGE

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NO.

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TESTS								GENERAL REMARKS
10-1	10-2							
BOTTLE TYPE AND PRESERVATION								

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	SMP 7 0218A	2/18/99	A		Y	X	X							
	SMP 8 0218A	"	A		Y	X	X							
	SMP 9 0218A	"	A		Y	X	X							
	SMP 1 0218B	"	A		Y	X	X							
	SMP 2 0218B	"	A		Y	X	X							
	SMP 4 0218B	"	A		Y	X	X							
	SMP 7 0218B	"	A		Y	X	X							
	SMP 8 0218B	"	A		Y	X	X							
	SMP 9 0218B	"	A		Y	X	X							

MATRIX CODES	BOTTLES PREPARED BY	DATE / TIME	BOTTLES REC'D BY	DATE / TIME	REMARKS ON SAMPLE RECEIPT
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	SIGNATURE		SIGNATURE		☐ BOTTLES INTACT ☐ PRESERVED ☐ CHILLED ☐ CUSTODY SEALS ☐ SEALS INTACT ☐ SEE REMARKS
	SAMPLES COLLECTED BY	DATE / TIME	RECEIVED IN LAB BY	DATE / TIME	
	Paul Jobmann	2/18/99	C. Casella	2-17-99 11:15	
	SIGNATURE		SIGNATURE		

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CHAIN OF CUSTODY RECORD

PAGE

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NO.

17

STL JOB #:

CLIENT: *LBG*

PROJECT ID: *Rose Industries Site*

STL PROJECT MGR:

RUSH

☐ YES

☐ NO

DUE DATE *3/5/99*

TESTS

GENERAL REMARKS

BOTTLE TYPE AND PRESERVATION

FIELD FILTERED - CIRCLE Y or N

SAMPLE REMARKS

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	<i>SMP 1 0225A</i>	<i>2/25/99</i>	<i>A</i>		<i>Y</i>	<i>Y</i>	<i>X</i>							
	<i>SMP 2 0225A</i>					<i>X</i>	<i>X</i>							
	<i>SMP 4 0225A</i>					<i>X</i>	<i>X</i>							
	<i>SMP 7 0225A</i>					<i>Y</i>	<i>X</i>							
	<i>SMP 8 0225A</i>					<i>X</i>	<i>X</i>							
	<i>SMP 9 0225A</i>					<i>X</i>	<i>Y</i>							
	<i>SMP 1 0225B</i>					<i>X</i>	<i>Y</i>							
	<i>SMP 3 0225B</i>					<i>Y</i>	<i>X</i>							
	<i>SMP 4 0225B</i>					<i>X</i>	<i>X</i>							
	<i>SMP 7 0225B</i>					<i>Y</i>	<i>X</i>							

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS ON SAMPLE RECEIPT

☐ BOTTLES INTACT
☐ PRESERVED
☐ CHILLED
☐ CUSTODY SEALS
☐ SEALS INTACT
☐ SEE REMARKS

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CHAIN OF CUSTODY RECORD

PAGE

2 OF 2

NO.

17

TESTS										GENERAL REMARKS	
TO-1 TO-2											
BOTTLE TYPE AND PRESERVATION											
FIELD FILTERED - CIRCLE Y or N										SAMPLE REMARKS	
BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	Y / N	Y / N	Y / N	Y / N		Y / N
	sur 8 0225B	2/25/99	A		Y	X	X				
	SMP9 0225B	2/25/99	A		Y	X	X				

MATRIX CODES	BOTTLES PREPARED BY	DATE / TIME	BOTTLES REC'D BY	DATE / TIME	REMARKS ON SAMPLE RECEIPT
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	SIGNATURE		SIGNATURE		☐ BOTTLES INTACT ☐ CUSTODY SEALS ☐ PRESERVED ☐ SEALS INTACT ☐ CHILLED ☐ SEE REMARKS
	SAMPLES COLLECTED BY		RECEIVED IN LAB BY		
	DATE / TIME		DATE / TIME		
	Paul Johnson	2/25/99		2/26/99	
	SIGNATURE		SIGNATURE		
			1035		

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CHARTER OF JUSTICE RECORD

PAGE

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NO.

10

TESTS

GENERAL REMARKS

To-1 To-2

BOTTLE TYPE AND PRESERVATION

RUSH

☐ YES

☐ NO

DUE DATE 3/12/99

BOTTLE
SET #

CLIENT SAMPLE ID

DATE / TIME
SAMPLED

MATRIX

LAB
ID

QC
Y / N

FIELD FILTERED - CIRCLE Y or N

SAMPLE REMARKS

smp 1 0304A

3/4/99

A

Y

X

X

smp 2 0304A

Y

smp 4 0304A

Y

smp 7 0304A

Y

smp 8 0304A

Y

smp 9 0304A

Y

smp 1 0304B

Y

smp 2 0304B

Y

smp 3 0304B

Y

smp 7 0304B

Y

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS ON SAMPLE RECEIPT

☐ BOTTLES
INTACT

☐ CUSTODY SEALS

☐ PRESERVED

☐ SEALS INTACT

☐ CHILLED

☐ SEE REMARKS

Paul Jobmann

3/4/99

Paul Jobmann

ANTONIO ROSA III

3/5/99 10:20

Antonio Rosa III

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CHAIN OF CUSTODY RECORD

PAGE

1 OF

2

NO.

3/9

Committed To Your Success

STL JOB #:

CLIENT: **LBG**

PROJECT ID: **Rowe Industries**

STL PROJECT MGR:

RUSH

☐ YES

☐ NO

DUE DATE **3/29/99**

TESTS

GENERAL REMARKS

TO-1 TO-2

BOTTLE TYPE AND PRESERVATION

FIELD FILTERED - CIRCLE Y or N

SAMPLE REMARKS

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	SAMPLE REMARKS
	smp 1 0311A	3/11/99	A		Y	X	+								
	smp 2 0311A					X	+								
	smp 3 0311A					X	+								
	smp 7 0311A					X	+								
	smp 8 0311A					X	+								
	smp 9 0311A					X	+								
	smp 2 0311B					X	+								
	smp 4 0311B					X	+								
	smp 7 0311B					X	+								
	smp 8 0311B					X	+								

MATRIX CODES

BOTTLES PREPARED BY

DATE / TIME

BOTTLES REC'D BY

DATE / TIME

REMARKS ON SAMPLE RECEIPT

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

SIGNATURE

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

SIGNATURE

☐ BOTTLES INTACT

☐ CUSTODY SEALS

☐ PRESERVED

☐ SEALS INTACT

☐ CHILLED

☐ SEE REMARKS

Paul Jabmann

3/11/99

Antonio Resendez

3/12/99 10:45

Paul Jabmann

Antonio Resendez

CLIENT COPY



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CHAIN OF JUSTICE RECORD

PAGE

OF

NO.

20

Committed To Your Success

STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries Site

STL PROJECT MGR:

RUSH

YES

NO

DUE DATE

3/26/99

TESTS

GENERAL REMARKS

T0-1 T0-2

BOTTLE TYPE AND PRESERVATION

FIELD FILTERED - CIRCLE Y or N

SAMPLE REMARKS

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smg 2 0318A	5/18/99	A		Y	X	X							
	smg 4 0318A					X	X							
	smg 7 0318A					X	X							
	smg 8 0318A					X	X							
	smg 9 0318A					X	X							

MATRIX CODES		BOTTLES PREPARED BY		DATE / TIME		BOTTLES REC'D BY		DATE / TIME		REMARKS ON SAMPLE RECEIPT	
A - AIR	S - SOIL	SIGNATURE				SIGNATURE				☐ BOTTLES INTACT	☐ CUSTODY SEALS
AQ - AQUEOUS	SL - SLUDGE									☐ PRESERVED	☐ SEALS INTACT
C - COMPLEX	W - WIPE	SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY		DATE / TIME		☐ CHILLED	☐ SEE REMARKS
D - DRUM WASTE	O - OTHER	Paul Johnson		3/18/99		Antonio Rosa III		3/19/99 11:30			
OI - OIL	FB - FIELD BLANK	SIGNATURE				SIGNATURE					
	TB - TRIP BLANK	[Signature]				[Signature]					

CLIENT COPY



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CHAIN OF CUSTODY RECORD

PAGE

OF

NO.

Committed To Your Success

STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries

STL PROJECT MGR:

RUSH

YES

NO

DUE DATE

4/2/99

TESTS

GENERAL REMARKS

BOTTLE TYPE AND PRESERVATION

FIELD FILTERED - CIRCLE Y or N

SAMPLE REMARKS

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	SAMPLE REMARKS
	smp 2 0325A	3/25/99	A		Y	X	X								
	smp 4 0325A					X	X								
	smp 7 0325A					X	X								
	smp 8 0325A					X	X								
	smp 9 0325A					X	X								
	smp 3 0325B					X	X								
	smp 4 0325B					X	X								
	smp 7 0325B					X	X								
	smp 8 0325B					X	X								
	smp 9 0325B					X	X								

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS ON SAMPLE RECEIPT

☐ BOTTLES INTACT
☐ PRESERVED
☐ CHILLED
☐ CUSTODY SEALS
☐ SEALS INTACT
☐ SEE REMARKS

CLIENT COPY



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CHAIN OF JUSTICE RECORD

PAGE

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NO.

22

STL JOB #:

CLIENT: **LBG**

PROJECT ID: **Rowe Industries**

STL PROJECT MGR:

RUSH

☐ YES

☐ NO

DUE DATE

4/8/99

TESTS

GENERAL REMARKS

TO-1 TO-2

For results
as early as possible
Thursday 4/8/99
to 203 452 3100
and 516 725 5143

BOTTLE TYPE AND PRESERVATION

FIELD FILTERED - CIRCLE Y or N

CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								REMARKS
					Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
smp 2 0401A	4/1/99	A		Y	X	X							
smp 3 0401A					X	X							
smp 7 0401A					X	X							
smp 8 0401A					X	X							
smp 9 0401A					X	X							

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS

☐ BOTTLES INTACT

☐ CUSTODY SEALS

☐ PRESERVED

☐ SEALS INTACT

☐ CHILLED

☐ SEE REMARKS

Paul Jobmann

4/1/99

Johanna Dubauskas

4-1-99

SAMPLE CONTROL COPY



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CHAIN OF CUSTODY RECORD

PAGE

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NO.

23

Committed To Your Success

STL JOB #:

CLIENT: **LBG**

PROJECT ID: **Rowe Industries**

STL PROJECT MGR:

RUSH

☐ YES

☐ NO

DUE DATE

4/15/99

TESTS

GENERAL REMARKS

TO-1 TO-2

BOTTLE TYPE AND PRESERVATION

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smg 2 0408A	4/8/99	1		7	X	X							
	smg 3 0408A	7	1		1									
	smg 7 0408A													
	smg 8 0408A													
	smg 9 0408A													
	smg 2 0408B													
	smg 4 0408B													
	smg 7 0408B													
	smg 8 0408B													
	smg 9 0408B													

MATRIX CODES

A - AIR
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C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES RECEIVED BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS ON SAMPLE RECEIPT

☐ BOTTLES INTACT
☐ CUSTODY SEALS
☐ PRESERVED
☐ SEALS INTACT
☐ CHILLED
☐ SEE REMARKS



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CHAIN OF CUSTODY RECORD

PAGE

OF

NO.

2

Committed To Your Success

STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries

STL PROJECT MGR:

RUSH

☐

YES

☐

NO

DUE DATE

4/22/99

TESTS

GENERAL REMARKS

TO-1 TO-2

BOTTLE TYPE AND PRESERVATION

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smp 2 0415A	4/15/99	A		Y	X	X							
	smp 4 0415A													
	smp 7 0415A													
	smp 8 0415A													
	smp 9 0415A													
	smp 3 0415B													
	smp 4 0415B													
	smp 7 0415B													
	smp 8 0415B													
	smp 9 0415B													

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS ON SAMPLE RECEIPT

☐ BOTTLES INTACT
☐ PRESERVED
☐ CHILLED
☐ CUSTODY SEALS
☐ SEALS INTACT
☐ SEE REMARKS

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CHAIN OF CUSTODY RECORD

PAGE

OF

NO. 2

Committed To Your Success

STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries

STL PROJECT MGR:

RUSH

☐ YES

☐ NO

DUE DATE

TESTS

GENERAL REMARKS

To-1 To-2

BOTTLE TYPE AND PRESERVATION

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smg 3 0422A	4/22/99	A		Y	X	X							
	smg 4 0422A					X	X							
	smg 7 0422A					X	X							
	smg 8 0422A					X	X							
	smg 9 0422A					X	X							
	smg 2 0422B					X	X							
	smg 3 0422B					X	X							
	smg 7 0422B					X	X							
	smg 8 0422B					X	X							
	smg 9 0422B					X	X							

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

REMARKS ON SAMPLE RECEIPT

☐ BOTTLES INTACT
☐ PRESERVED
☐ CHILLED
☐ CUSTODY SEALS
☐ SEALS INTACT
☐ SEE REMARKS

CLIENT COPY



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CHAIN OF CUSTODY RECORD

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STL JOB #:

CLIENT: *LBG*

PROJECT ID: *Rowe Industries*

STL PROJECT MGR:

RUSH ☐ YES ☐ NO

DUE DATE *5/7/99*

TESTS								GENERAL REMARKS
TO-1	TO-2							
BOTTLE TYPE AND PRESERVATION								

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	<i>smp 2 0429A</i>	<i>4/29/99</i>	<i>A</i>		<i>Y</i>	<i>X</i>	<i>X</i>							
	<i>smp 3 0429A</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 7 0429A</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 8 0429A</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 9 0429A</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 2 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 4 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 7 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 8 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 9 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							

MATRIX CODES		BOTTLES PREPARED BY		BOTTLES REC'D BY		REMARKS ON SAMPLE RECEIPT			
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK		DATE / TIME		DATE / TIME		☐ BOTTLES INTACT ☐ PRESERVED ☐ CHILLED ☐ CUSTODY SEALS ☐ SEALS INTACT ☐ SEE REMARKS			
SIGNATURE		SIGNATURE		SIGNATURE					
SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY					
<i>Paul Tobmann</i>		<i>4/29/99</i>		<i>4/30/99</i>		<i>1130</i>			
SIGNATURE		SIGNATURE		SIGNATURE					
<i>Paul Tobmann</i>		<i>OColon</i>							



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200 Monroe Turnpike
Monroe CT 06468
Tel: (203) 261-4458
Fax: (203) 268-5346

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

NO. 2

Committed To Your Success

STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries

STL PROJECT MGR:

RUSH ☐ YES ☐ NO

DUE DATE 5/13/99

TESTS								GENERAL REMARKS
TO-1 TO-2								
BOTTLE TYPE AND PRESERVATION								

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smg 3 0506A	5/6/99	A		Y	X	X							
	smg 4 0506A					X	X							
	smg 7 0506A					X	X							
	smg 8 0506A					X	X							
	smg 9 0506A					X	X							

MATRIX CODES	BOTTLES PREPARED BY	DATE / TIME	BOTTLES REC'D BY	DATE / TIME	REMARKS ON SAMPLE RECEIPT
A - AIR AO - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	SIGNATURE		SIGNATURE		☐ BOTTLES INTACT ☐ CUSTODY SEALS ☐ PRESERVED ☐ SEALS INTACT ☐ CHILLED ☐ SEE REMARKS
	SAMPLES COLLECTED BY	DATE / TIME	RECEIVED IN LAB BY	DATE / TIME	
	Paul Jobmann	5/6/99	Michael Pappas	5/6/99	
	SIGNATURE		SIGNATURE		
	Paul Jobmann		Michael Pappas		



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CHAIN OF CUSTODY RECORD

STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries

STL PROJECT MGR:

RUSH ☒ YES ☐ NO

DUE DATE 5/20/99

TESTS								GENERAL REMARKS
To-1	To-2							
BOTTLE TYPE AND PRESERVATION								GENERAL REMARKS

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smg 3 0513 A	5/13/99	A		Y	X	X							
	smg 4 0513 A													
	smg 7 0513 A													
	smg 8 0513 A													
	smg 9 0513 A													
	smg 2 0513 B													
	smg 3 0513 B													
	smg 7 0513 B													
	smg 8 0513 B													
	smg 9 0513 B													

MATRIX CODES A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	BOTTLES PREPARED BY		DATE / TIME	BOTTLES REC'D BY		DATE / TIME	REMARKS ON SAMPLE RECEIPT ☐ BOTTLES INTACT ☐ PRESERVED ☐ CHILLED ☐ CUSTODY SEALS ☐ SEALS INTACT ☐ SEE REMARKS
	SIGNATURE			SIGNATURE			
	SAMPLES COLLECTED BY		DATE / TIME	RECEIVED IN LAB BY		DATE / TIME	
	SIGNATURE			SIGNATURE			



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Monroe CT 06468
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Fax: (203) 268-5346

CHAIN OF CUSTODY RECORD

STL JOB #:
CLIENT: LBG
PROJECT ID: Rowe Industries
STL PROJECT MGR:
RUSH ☐ YES ☐ NO DUE DATE 5/27/99

TESTS							GENERAL REMARKS
TO-1	TO-2						
BOTTLE TYPE AND PRESERVATION							

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smg 1 0520	5/20/99	A		Y	X	X							
	smg 2 0520													
	smg 3 0520													
	smg 7 0520													
	smg 8 0520													
	smg 9 0520													

MATRIX CODES		BOTTLES PREPARED BY		DATE / TIME		BOTTLES REC'D BY		DATE / TIME		REMARKS ON SAMPLE RECEIPT	
A - AIR	S - SOIL	SIGNATURE				SIGNATURE				☐ BOTTLES INTACT	☐ CUSTODY SEALS
AQ - AQUEOUS	SL - SLUDGE									☐ PRESERVED	☐ SEALS INTACT
C - COMPLEX	W - WIPE	SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY		DATE / TIME		☐ CHILLED	☐ SEE REMARKS
D - DRUM WASTE	O - OTHER	Paul Johnson		5/20/99		CP Damiani		05/20/99 1545			
OI - OIL	FB - FIELD BLANK	SIGNATURE				SIGNATURE					
	TB - TRIP BLANK										



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CHAIN OF CUSTODY RECORD

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STL JOB #:

CLIENT:

LBG

PROJECT ID:

Rome Industries

STL PROJECT MGR:

RUSH

YES

NO

DUE DATE

6/30/99

TESTS

GENERAL REMARKS

T0-1 T0-2

BOTTLE TYPE AND PRESERVATION

BOTTLE SET #	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	snp 1 0617A	6/17/99	A		4	X	X							
	snp 2 0617A													
	snp 3 0617A													
	snp 7 0617A													
	snp 8 0617A													
	snp 9 06178													

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES RECEIVED BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS ON SAMPLE RECEIPT

☒ BOTTLES INTACT
☒ PRESERVED
☒ CHILLED
☒ CUSTODY SEALS
☒ SEALS INTACT
☒ SEE REMARKS



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TESTS								GENERAL REMARKS	
TO-1	TO-2							5 dog Turnaround	
BOTTLE TYPE AND PRESERVATION								2 samples of each	

STL JOB #:

CLIENT: *LBG*

PROJECT ID: *Rove Industries*

STL PROJECT MGR:

RUSH ☐ YES ☐ NO DUE DATE

BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED / CIRCLE Y or N								
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	<i>SMP1 1221</i>	<i>12/21</i>	<i>A</i>		<i>Y</i>	<i>X</i>	<i>X</i>							
	<i>SMP2 1221</i>	<i>12/21</i>	<i>A</i>		<i>Y</i>	<i>X</i>	<i>X</i>							
	<i>SMP6 1221</i>	<i>12/21</i>	<i>A</i>		<i>Y</i>	<i>X</i>	<i>X</i>							
	<i>SMP7 1221</i>	<i>12/21</i>	<i>A</i>		<i>Y</i>	<i>X</i>	<i>X</i>							
	<i>SMP8 1221</i>	<i>12/21</i>	<i>A</i>		<i>Y</i>	<i>X</i>	<i>X</i>							
	<i>SMP9 1221</i>	<i>12/21</i>	<i>A</i>		<i>Y</i>	<i>X</i>	<i>X</i>							
	<i>Downwind 1221</i>	<i>12/21</i>	<i>A</i>		<i>Y</i>	<i>X</i>	<i>X</i>							

MATRIX CODES	BOTTLES PREPARED BY	DATE / TIME	BOTTLES REC'D BY	DATE / TIME	REMARKS / SAMPLE RECORD
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	SIGNATURE		SIGNATURE		☐ BOTTLES INTACT ☐ PRESERVED ☐ CHILLED ☐ CUSTODY SEALS ☐ SEALS INTACT ☐ SEE REMARKS
	SAMPLES COLLECTED BY	DATE / TIME	RECEIVED IN LAB BY	DATE / TIME	
	<i>Paul Tobmann</i>	<i>12/21</i>	<i>[Signature]</i>	<i>12/21/21</i>	
	SIGNATURE		SIGNATURE		
	<i>[Signature]</i>		<i>[Signature]</i>	<i>12/21/21</i>	

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NO.

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Committed To Your Success

STL JOB #:

CLIENT:

LBG

PROJECT ID:

Rowe Industries

STL PROJECT MGR:

RUSH

☐ YES☐ NO

DUE DATE

TESTS

TO-1 TO-2

Will contact
with turn
around time

BOTTLE TYPE AND PRESERVATION

2 samples
of each

FIELD FILTERED CIRCLE Y or N

BOTTLE ID	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED CIRCLE Y or N							
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
	SMP1 1228	12/28	A		Y	x	x						
	SMP2 1228					x	x						
	SMP3 1228					x	x						
	SMP7 1228					x	x						
	SMP8 1228					x	x						
	SMP9 1228					x	x						

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS OR OTHER RECORD

☐ BOTTLES
INTACT☐ CUSTODY SEALS☐ PRESERVED☐ SEALS INTACT☐ CHILLED☐ SEE REMARKS

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7098-2834A
STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

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STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries

STL PROJECT MGR:

RUSH ☒ YES ☐ NO

DUE DATE 1/4/99
Carbon Sample C

TESTS								GENERAL REMARKS
8260	8270	RCRA metals (total)	8080	Ignitability	Corrosivity	Reactivity		
BOTTLE TYPE AND PRESERVATION								results of Carbon Un-1 sample Monday 1/4/99 Morning

BOTTLE NO.	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	Metals Moisture Sep	12/28/98	AQ		Y			X	X	X	X	X		Standard Turn around
	Moisture Sep	12/28/98	AQ		Y	X	X							Standard Turn around
	Pre Carbon Moisture	12/28/98	AQ		Y	X	X							Standard Turn around
	Carbon Un-1	12/28/98	⊙		Y	X								48 hour Turn around

MATRIX CODES	BOTTLES PREPARED BY	DATE / TIME	BOTTLES REC'D BY	DATE / TIME
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	SIGNATURE		SIGNATURE	
	SAMPLES COLLECTED BY	DATE / TIME	RECEIVED IN LAB BY	DATE / TIME
	Paul Tubmann	12/28/98		12/30/98 9:50
	SIGNATURE		SIGNATURE	

☐ BOTTLES INTACT
☐ PRESERVED
☐ CHILLED
☐ CUSTODY SEALS
☐ SEALS INTACT
☐ SEE REMARKS

SAMPLE CONTROL COPY



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CHAIN OF CUSTODY RECORD

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STL JOB #:
CLIENT: LBG
PROJECT ID: Rowe Industries
STL PROJECT MGR:
RUSH ☐ YES ☐ NO DUE DATE 1/19/99

TESTS							
RCRA Metals	Corrosivity	Reactivity	Ignitability	8080	8270		
BOTTLE TYPE AND PRESERVATION							
H2O2							

5 days turn around

BOTTLE NO.	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N							
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
	Moisture Separator	1/13/99 10:25	AQ		Y	X	X	X	X	X	X		

MATRIX CODES		BOTTLES PREPARED BY		DATE / TIME		BOTTLES REC'D BY		DATE / TIME	
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK		1							
		SIGNATURE				SIGNATURE			
		SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY		DATE / TIME	
		Paul Johnson		1/13/99		[Signature]		1/13/99	
		SIGNATURE				SIGNATURE			
		[Signature]				[Signature]			
		</							

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Monroe CT 06468

Tel: (203) 261-4458

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CHAM OF JUSTICE RECORD

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Committed To Your Success

STL JOB #:

CLIENT: LBA

PROJECT ID: Rowe Industries

STL PROJECT MGR:

RUSH

☐ YES☐ NO

DUE DATE

TESTS

GENERAL REMARKS

T0-1

T0-2

5 day
Turn around

BOTTLE TYPE AND PRESERVATION

BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	Smp 1 0128A					X	X							
	Smp 2 0128A					X	X							
	Smp 4 0128A					X	X							
	Smp 7 0128A					X	X							
	Smp 8 0128A					X	X							
	Smp 9 0128A					X	X							

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

SIGNATURE

REMARKS

☐ BOTTLES INTACT☐ CUSTODY SEALS☐ PRESERVED☐ SEALS INTACT☐ CHILLED☐ SEE REMARKS

SAMPLE CONTROL COPY



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CHAIN OF CUSTODY RECORD

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STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries Site

STL PROJECT MGR:

RUSH

☐ YES☐ NODUE DATE ~~2/10~~ 2/12/99

TESTS								GENERAL INFORMATION							
TO-1 TO-2															
BOTTLE TYPE AND PRESERVATION															

BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								
						Y	N	Y	N	Y	N	Y	N	
	SMP 7 0204A	2/1/99 10:10	A			X		+						
	SMP 8 0204A	2/4/99 11:10	A			X		+						
	SMP 9 0204A	2/4/99 10:11	A			X		+						
	SMP 1 0204B	2/4/99 12:00	A			X		+						
	SMP 3 0204B	2/4/99 12:31	A			X		+						
	SMP 4 0204B	2/4/99 12:25	A			X		+						
	SMP 7 0204B	2/4/99 12:25	A			X		+						
	SMP 8 0204B	2/4/99 12:25	A			X		+						
	SMP 9 0204B	2/4/99 12:26	A			X		+						

MATRIX CODES A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	BOTTLES PREPARED BY		DATE / TIME		BOTTLES REC'D BY		DATE / TIME		☐ BOTTLES INTACT ☐ CUSTODY SEALS ☐ PRESERVED ☐ SEALS INTACT ☐ CHILLED ☐ SEE REMARKS	
	SIGNATURE				SIGNATURE					
	SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY		DATE / TIME			
	Paul Tobmorn SIGNATURE <i>Paul Tobmorn</i>		2/1/99		SIGNATURE <i>[Signature]</i> 1501		2/5/99			

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CHAIN OF CUSTODY RECORD

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TESTS								GENERAL REMARKS
10-1	10-2							
BOTTLE TYPE AND PRESERVATION								

STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries

STL PROJECT MGR:

RUSH

☐ YES☐ NO

DUE DATE 2/26/99

BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								FIELD NO.
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	SMP 7 0211 A	2/11/99	A		Y	X	X							
	SMP 8 0211 A	2/11/99	A		Y	X	X							
	SMP 9 0211 A	2/11/99	A		Y	X	X							
	SMP 1 0211 B	2/11/99	A		Y	X	X							
	SMP 2 0211 B	2/11/99	A		Y	Y	X							
	SMP 3 0211 B	2/11/99	A		Y	X	X							
	SMP 7 0211 B	2/11/99	A		Y	X	X							
	SMP 8 0211 B	2/11/99	A		Y	X	X							
	SMP 9 0211 B	2/11/99	A		Y	X	+							

MATRIX CODES	BOTTLES PREPARED BY	DATE / TIME	BOTTLES REC'D BY	DATE / TIME
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	SIGNATURE		SIGNATURE	
	SAMPLES COLLECTED BY	DATE / TIME	RECEIVED IN LAB BY	DATE / TIME
	Paul Jabrann	2/11/99		2/12/99 14:00
	SIGNATURE		SIGNATURE	

☐ BOTTLES
INTACT☐ CUSTODY SEALS☐ PRESERVED☐ SEALS INTACT☐ CHILLED☐ SEE REMARKS

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STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES CHAIRMAN'S OFFICE

Committed To Your Success

STL JOB #:

CLIENT: LBC

PROJECT ID: Rome Industries Site

STL PROJECT MGR:

RUSH ☐ YES ☐ NO DUE DATE 2/25/99

TESTS								GENERAL REMARKS
10-1	10-2							
BOTTLE TYPE AND PRESERVATION								GENERAL REMARKS

BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	GC Y / N	FIELD FILTERED - CIRCLE Y or N								GENERAL REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	SMP 7 0218A	2/18/99	A		Y	X	X							
	SMP 8 0218A	"	A		Y	X	X							
	SMP 9 0218A	"	A		Y	X	X							
	SMP 1 0218B	"	A		Y	X	X							
	SMP 2 0218B	"	A		Y	X	X							
	SMP 4 0218B	"	A		Y	X	X							
	SMP 7 0218B	"	A		Y	X	X							
	SMP 8 0218B	"	A		Y	X	X							
	SMP 9 0218B	"	A		Y	X	X							

MATRIX CODES A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	BOTTLES PREPARED BY		DATE / TIME		BOTTLES REC'D BY		DATE / TIME	
	SIGNATURE				SIGNATURE			
	SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY		DATE / TIME	
	SIGNATURE				SIGNATURE			

Paul Johnson 2/18/99

Paul Johnson

2/17/99 11:15

Paul Johnson

☐ BOTTLES INTACT
☐ PRESERVED
☐ CHILLED

☐ CUSTODY SEALS
☐ SEALS INTACT
☐ SEE REMARKS



Sev^t ent^r ator^r

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Monroe CT 06468

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CHA... OF JUSTICE RECORD

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Committed To Your Success

STL JOB #:

CLIENT: *LBG*

PROJECT ID: *Rowe Industries Site*

STL PROJECT MGR:

RUSH

☐ YES

☐ NO

DUE DATE

3/5/99

TESTS

GENERAL REMARKS

<i>TO-1</i>	<i>TO-2</i>						
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BOTTLE TYPE AND PRESERVATION

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BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	<i>SMP 1 0225A</i>	<i>2/25/99</i>	<i>A</i>		<i>Y</i>	<i>Y</i>	<i>X</i>							
	<i>SMP 2 0225A</i>					<i>X</i>	<i>X</i>							
	<i>SMP 4 0225A</i>					<i>Y</i>	<i>X</i>							
	<i>SMP 7 0225A</i>					<i>Y</i>	<i>X</i>							
	<i>SMP 8 0225A</i>					<i>X</i>	<i>X</i>							
	<i>SMP 9 0225A</i>					<i>X</i>	<i>Y</i>							
	<i>SMP 1 0225B</i>					<i>X</i>	<i>Y</i>							
	<i>SMP 3 0225B</i>					<i>Y</i>	<i>X</i>							
	<i>SMP 4 0225B</i>					<i>X</i>	<i>X</i>							
	<i>SMP 7 0225B</i>					<i>Y</i>	<i>X</i>							

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS ON SAMPLES

☐ BOTTLES INTACT
☐ CUSTODY SEALS
☐ PRESERVED
☐ SEALS INTACT
☐ CHILLED
☐ SEE REMARKS

Foul Johnson

2/25/99

[Signature]

2/26/99

10/5

[Signature]

SAMPLE CONTROL COPY



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Fax: (203) 268-5346

CHAIN OF CUSTODY RECORD

DATE 1 OF 2 NO. 10

Committed To Your Success

STL JOB #:
CLIENT: LBG
PROJECT ID: Rowe Industries Site
STL PROJECT MGR:
RUSH ☐ YES ☐ NO DUE DATE 3/12/99

TESTS
TO-1 TO-2
BOTTLE TYPE AND PRESERVATION

BOTTLE ID	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smpl 0304A	3/4/99	A		Y	X	X							
	smpl 2 0304A				Y									
	smpl 4 0304A				Y									
	smpl 7 0304A				Y									
	smpl 8 0304A				Y									
	smpl 9 0304A				Y									
	smpl 1 0304B				Y									
	smpl 2 0304B				Y									
	smpl 3 0304B				Y									
	smpl 7 0304B				Y									

MATRIX CODES		BOTTLES PREPARED BY		DATE / TIME		BOTTLES REC'D BY		DATE / TIME		REMARKS ON SAMPLE RECEIPT	
A - AIR	S - SOIL	SIGNATURE				SIGNATURE				☐ BOTTLES INTACT	☐ CUSTODY SEALS
AQ - AQUEOUS	SL - SLUDGE									☐ PRESERVED	☐ SEALS INTACT
C - COMPLEX	W - WIPE	SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY		DATE / TIME		☐ CHILLED	☐ SEE REMARKS
D - DRUM WASTE	O - OTHER	Paul Jobmann		3/4/99		H. J. Johnson		3/12/99 10:20			
OI - OIL	FB - FIELD BLANK	SIGNATURE				SIGNATURE					
	TB - TRIP BLANK	[Signature]				[Signature]					



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CHAIN OF CUSTODY RECORD

STL JOB #:
CLIENT: LBG
PROJECT ID: Rowe Industries Site
STL PROJECT MGR:
RUSH ☐ YES ☐ NO DUE DATE 3/12/99

TESTS								GENERAL REMARKS
TO-1	TO-2							
BOTTLE TYPE AND PRESERVATION								GENERAL REMARKS

BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	Sup 8 0304B	3/4/99	A		Y	X	X							
	Sup 9 0304B	3/4/99	A		Y	X	X							

MATRIX CODES		BOTTLES PREPARED BY		DATE / TIME		BOTTLES REC'D BY		DATE / TIME		REMARKS ON SAMPLE RECEIVED	
A - AIR	S - SOIL	SIGNATURE				SIGNATURE				☐ BOTTLES INTACT	☐ CUSTODY SEALS
AQ - AQUEOUS	SL - SLUDGE									☐ PRESERVED	☐ SEALS INTACT
C - COMPLEX	W - WIPE									☐ CHILLED	☐ SEE REMARKS
D - DRUM WASTE	O - OTHER										
OI - OIL	FB - FIELD BLANK										
	TB - TRIP BLANK										
		SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY		DATE / TIME			
		Paul Jobmann		3/4/99		[Signature]		3/12/99 10:20			
		SIGNATURE				SIGNATURE					
		[Signature]				[Signature]					



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CHAIN OF CUSTODY RECORD

Committed To Your Success

STL JOB #:
CLIENT: **LBG**
PROJECT ID: **Rowe Industries**
STL PROJECT MGR:
RUSH ☐ YES ☐ NO DUE DATE **3/29/99**

TESTS								GENERAL REMARKS
TO-1	TO-2							
BOTTLE TYPE AND PRESERVATION								

BOTTLE NO.	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smp 1 0311A	3/11/99	A		Y	X	+							
	smp 2 0311A					X	+							
	smp 3 0311A					X	+							
	smp 7 0311A					X	+							
	smp 8 0311A					X	+							
	smp 9 0311A					X	+							
	smp 2 0311B					X	+							
	smp 4 0311B					X	+							
	smp 7 0311B					X	+							
	smp 8 0311B					X	+							

MATRIX CODES		BOTTLES PREPARED BY		DATE / TIME		BOTTLES REC'D BY		DATE / TIME		REMARKS ON SAMPLE RECEIPT	
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK		SIGNATURE				SIGNATURE				☐ BOTTLES INTACT ☐ PRESERVED ☐ CHILLED ☐ CUSTODY SEALS ☐ SEALS INTACT ☐ SEE REMARKS	
		SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY		DATE / TIME			
		Paul Jobmann		3/11/99		Antonio Ruz...		3/12/99 10:45			
		SIGNATURE				SIGNATURE					



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CHAIN OF CUSTODY RECORD

PAGE

2 OF 2

NO.

19

Committed To Your Success

STL JOB #:

CLIENT: LBG

PROJECT ID: Rowe Industries

STL PROJECT MGR:

RUSH

☐

YES

☐

NO

DUE DATE

3/19/99

TESTS

GENERAL REMARKS

TO1 TO2

BOTTLE TYPE AND PRESERVATION

FIELD FILTERED - CIRCLE Y or N

SAMPLE REMARKS

BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								SAMPLE REMARKS
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	smp 9 0311B	3/11/99	A		Y	X	X							
	smp 1 0311B	3/11/99	A		Y	X	X							

MATRIX CODES A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	BOTTLES PREPARED BY	DATE / TIME	BOTTLES REC'D BY	DATE / TIME	REMARKS ON SAMPLE RECEIPT ☐ BOTTLES INTACT ☐ PRESERVED ☐ CHILLED ☐ CUSTODY SEALS ☐ SEALS INTACT ☐ SEE REMARKS
	SIGNATURE		SIGNATURE		
	SAMPLES COLLECTED BY	DATE / TIME	RECEIVED IN LAB BY	DATE / TIME	
	Paul Jabmann	3/11/99	Antoniadoras	3/11/99 10:45	
	SIGNATURE		SIGNATURE		

SAMPLE CONTROL COPY



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CHAIN OF JUSTDY RECORD

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NO.

GENERAL REMARKS

TESTS

T0-1	T0-2								
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BOTTLE TYPE AND PRESERVATION

--	--	--	--	--	--	--	--	--	--

RUSH

☐ YES☐ NO

DUE DATE

4/2/99

BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								GENERAL REMARKS
						Y	N	Y	N	Y	N	Y	N	
	smp 2 0325A	3/25/99	A		Y	X		X						
	smp 4 0325A					X		X						
	smp 7 0325A					X		X						
	smp 8 0325A					X		X						
	smp 9 0325A					X		X						
	smp 3 0325B					X		X						
	smp 4 0325B					X		X						
	smp 7 0325B					X		X						
	smp 8 0325B					X		X						
	smp 9 0325B					X		X						

MATRIX CODES

A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY

DATE / TIME

SIGNATURE

SAMPLES COLLECTED BY

DATE / TIME

SIGNATURE

BOTTLES REC'D BY

DATE / TIME

SIGNATURE

RECEIVED IN LAB BY

DATE / TIME

SIGNATURE

REMARKS ON SAMPLE RECEIPT

☐ BOTTLES INTACT☐ CUSTODY SEALS☐ PRESERVED☐ SEALS INTACT☐ CHILLED☐ SEE REMARKS

Paul Jobmann

3/25/99

Antony Rypke

3/26/99 11:46

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200 Monroe Turnpike
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Tel: (203) 261-4458

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CHAIN OF CUSTODY RECORD

PAGE

OF

NO.

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Committed To Your Success

STL JOB #:

CLIENT: *LBG*

PROJECT ID: *Rowe Industries*

STL PROJECT MGR:

RUSH

☐ YES

☐ NO

DUE DATE *5/7/99*

TESTS								GENERAL REMARKS
<i>TO-1</i>	<i>TO-2</i>							
BOTTLE TYPE AND PRESERVATION								

BOTTLE SET	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX	LAB ID	QC Y / N	FIELD FILTERED - CIRCLE Y or N								
						Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	
	<i>smp 2 0429A</i>	<i>4/29/99</i>	<i>A</i>		<i>Y</i>	<i>X</i>	<i>X</i>							
	<i>smp 3 0429A</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 7 0429A</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 8 0429A</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 9 0429A</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 2 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 4 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 7 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 8 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							
	<i>smp 9 0429B</i>	<i> </i>	<i> </i>		<i> </i>	<i> </i>	<i> </i>							

MATRIX CODES	BOTTLES PREPARED BY	DATE / TIME	BOTTLES REC'D BY	DATE / TIME
A - AIR AQ - AQUEOUS C - COMPLEX D - DRUM WASTE OI - OIL S - SOIL SL - SLUDGE W - WIPE O - OTHER FB - FIELD BLANK TB - TRIP BLANK	SIGNATURE		SIGNATURE	
	SAMPLES COLLECTED BY	DATE / TIME	RECEIVED IN LAB BY	DATE / TIME
	<i>Paul Tobmann</i>	<i>4/29/99</i>	<i>OCelan</i>	<i>4/30/99</i> <i>1130</i>
	SIGNATURE		SIGNATURE	
	<i>Paul Tobmann</i>		<i>OCelan</i>	

☐ BOTTLES INTACT ☐ CUSTODY SEALS
☐ PRESERVED ☐ SEALS INTACT
☐ CHILLED ☐ SEE REMARKS

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Monroe CT 06468

Tel: (203) 261-4458

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CHART OF JUSTIFY RECORD

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OF

NO.

2

Committed To Your Success

STL JOB #:

CLIENT: *LBG*

PROJECT ID: *Rone Industries*

STL PROJECT MGR:

RUSH

☐ YES

☐ NO

DUE DATE

5/13/99

TESTS								GENERAL REMARKS	
To-1To-2									
BOTTLE TYPE AND PRESERVATION									
FIELD FILTERED - CIRCLE Y or N									
Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	SAMPLE MARK	
X	X								
X	X								
X	X								
X	X								
X	X								

MATRIX CODES		BOTTLES PREPARED BY		DATE / TIME		BOTTLES REC'D BY		DATE / TIME		REMARKS ON SAMPLES RECEIVED	
A - AIR	S - SOIL	SIGNATURE				SIGNATURE				☐ BOTTLES INTACT	☐ CUSTODY SEALS
AQ - AQUEOUS	SL - SLUDGE									☐ PRESERVED	☐ SEALS INTACT
C - COMPLEX	W - WIPE	SAMPLES COLLECTED BY		DATE / TIME		RECEIVED IN LAB BY		DATE / TIME		☐ CHILLED	☐ SEE REMARKS
D - DRUM WASTE	O - OTHER	<i>Paul Jobmann</i>		<i>5/6/99</i>		<i>Michael Pappas</i>		<i>5/6/99</i>			
OI - OIL	FB - FIELD BLANK	SIGNATURE				SIGNATURE					
	TB - TRIP BLANK	<i>Paul Jobmann</i>									

SAMPLE CONTROL COPY