

**INTERIM REMEDIAL MEASURES
FINAL ENGINEERING REPORT**

**NYSDEC SITE NO. V00330-8
BROWNFIELD CLEANUP AGREEMENT INDEX NO. B8-0576-00-04A**

**BUELL AUTOMATICS, INC.
381 BUELL ROAD
ROCHESTER, NEW YORK 14624**

MARCH 2004

Prepared on Behalf of:

**BUELL AUTOMATICS, INC.
381 BUELL ROAD
ROCHESTER, NEW YORK 14624**

Prepared for:

**NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
6274 EAST AVON-LIMA ROAD
AVON, NEW YORK 14414**

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381 BUELL ROAD
ROCHESTER, NEW YORK 14624**

Prepared by:

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March 25, 2004

Mr. Bart Putzig, P.E.
New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
6274 East Avon-Lima Road
Avon, New York 14414

RE: Interim Remedial Measures Final Engineering Report
NYSDEC Site No. V00330-8
Brownfield Cleanup Agreement Index No. B8-0576-00-04A
Buell Automatics, Inc.
381 Buell Road
Rochester, New York 14624

16059

Dear Mr. Putzig:

On behalf of Buell Automatics, Inc., enclosed is one copy of the Interim Remedial Measures Final Engineering Report and one set of the associated Record Drawings for the above-referenced site.

Should you have any questions or require further information, please do not hesitate to contact Michael Storonsky at (585) 475-1440, extension 760.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Storonsky".

Michael P. Storonsky
Senior Associate

A handwritten signature in black ink, appearing to read "David P. Belaskas".

David P. Belaskas, PE
Senior Environmental Engineer

A handwritten signature in black ink, appearing to read "April S. Krause".

April S. Krause
Environmental Scientist

Enclosures

cc: w/enclosures

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Certification of Registered Professional Engineer

I have reviewed this Interim Remedial Measures Final Engineering Report (IRMFER), including the attached Record Drawings, and do hereby certify that the environmental remediation work summarized in this IRMFER was implemented in general conformance with Brownfields Cleanup Agreement Index No. B8-0576-00-04A and the December 2003 Revised Interim Remedial Measures Work Plan and Construction Documents of the Buell Automatics, Inc. site, 381 Buell Road, Rochester, New York. Consensus on modifications to the Revised Interim Remedial Measures Work Plan and Construction Documents during the remedial construction activities were approved by the New York State Department of Environmental Conservation, the Monroe County Department of Health, and Buell Automatics, Inc. and are discussed within this IRMFER.



Reviewed and Approved by:

David P. Belaskas, P.E.
New York State License No. 073048-1

1.0 Introduction

This Interim Remedial Measures Final Engineering Report (IRMFER) has been prepared by Sear-Brown on behalf of Buell Automatics, Inc. (Buell) for Interim Remedial Measures implemented at the Buell parcel located at 381 Buell Road in the Town of Gates, Monroe County, New York (Site). A Site Location Map is included on Record Drawing EN-1.

The purpose of this IRMFER is to summarize the environmental remediation work conducted at the Site pursuant to the Revised Interim Remedial Measures Work Plan (Revised IRMWP) and Construction Documents prepared by Sear-Brown and dated December 2003. A letter of conditional approval of the Revised IRMWP was provided to Buell by the New York State Department of Environmental Conservation (DEC) and dated December 19, 2003. Additional verbal comments and consensus were provided by the DEC, the New York State Department of Health (NYSDOH, as necessary), Monroe County Department of Health (MCDOH, as necessary), and Buell (as necessary) for modifications to the Revised IRMWP that were subsequently implemented during the remedial construction activities.

Implementation of the Revised IRMWP was performed under the executed Brownfields Cleanup Agreement (BCA) Index No. B8-0576-00-04A between Buell and the DEC. Buell had previously entered into Voluntary Cleanup Agreement (VCA) Index No. V00330-8 with the DEC on February 28, 2002 to investigate and, if necessary, remediate the Site. In a letter to the DEC on November 19, 2003, Buell formally requested to transfer into the new Brownfields Cleanup Program. On December 10, 2003 Buell signed the BCA and forwarded it to the DEC for counter signature. On December 22, 2003, DEC countersigned the BCA, finalizing the transfer of the project from the Voluntary Cleanup Program to the Brownfields Cleanup Program.

Sear-Brown was retained by Buell to coordinate and provide construction observation and environmental monitoring, sampling and documentation services during the implementation of the Revised IRMWP at the Site. The majority of the Interim Remedial Measures were conducted during a two-week holiday shutdown period that extended from December 20, 2003 to January 4, 2004. Final site restoration activities and off-Site transportation and disposal of remediation-derived wastes were completed by February 12, 2004.

1.1 Organization of Report

Following this Introduction (Section 1), this IRMFER is organized as per the seven sections listed below:

- Section 2 summarizes Site background information, including previous studies completed, the nature and extent of known impacts on various on-Site media, contaminant migration pathways, and potential health and environmental effects;
- Section 3 summarizes the Site preparation tasks, such as installation of temporary structural supports, establishment and protection of work and support areas, and removal of concrete flooring, that were conducted prior to and maintained (as applicable) during implementation of the Interim Remedial Measures construction activities;
- Section 4 summarizes the Interim Remedial Measures construction activities, which included soil excavation, loading, screening and sampling; soil boring and recovery well installation and sampling; laboratory analysis and reporting; and waste characterization and disposal;
- Section 5 summarizes the Site restoration tasks completed subsequent to completion of the Interim Remedial Measures construction activities;
- Sections 6 and 7 summarize actions related to the implementation of the Site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP), respectively, during completion of the Interim Remedial Measures construction activities; and
- Section 8 summarizes the scope of work and analytical results for the Interim Remedial Measures completed.

Modifications to the proposed remedial activities presented in the Revised IRMWP are discussed in the pertinent sections of this report and were the result of one of the following:

- Previously unidentified or unanticipated on-Site field conditions encountered during the implementation of the Revised IRMWP; or
- Requests by the NYSDEC, NYSDOH, MCDOH and/or Buell.

Included herein are Tables 1 through 18, which summarize field and analytical data obtained during previous investigatory work conducted by Sear-Brown at the Site and the remedial activities conducted as part of the implementation of the Revised IRMWP.

Supporting project documentation for the completed Interim Remedial Measures construction activities are presented in the appendices to this IRMFER.

Record drawings depicting the encountered “as-built” conditions and the changes to the Revised IRMWP during implementation of the Interim Remedial Measures are presented as a separately bound drawing set.

1.2 Overview of Interim Remedial Measure Goals, Standards and Criteria

1.2.1 Remedial Action Goals

The intention of the Revised IRMWP was to address the on-Site soil that was most significantly impacted with chlorinated solvents, specifically trichloroethene (TCE), in order to reduce potential impacts to human health and the environment.

The proposed Interim Remedial Measures were intended to remove the most significant TCE-contaminated soil identified during investigation activities previously performed in accordance with VCA Index No. V00330-8 (see Section 2.0). As such, the proposed remediation scope of work focused on the TCE-impacted soil in the vicinity of borings B-8 and B-26 (see Record Drawing EN-3) and was intended to remove as much source material as practical in the B-8 source area given the Site constraints.

Limitations on the extent of excavation were anticipated based on a number of physical constraints, including building walls and column foundations, sandy soils, high groundwater and associated structural subsidence considerations. As a result, collected confirmatory samples were expected to show a reduction in chlorinated contaminant concentrations, but were not necessarily expected to exhibit contaminant levels below DEC Recommended Soil Cleanup Objectives and Cleanup Levels. It was understood that the implementation of the Revised IRMWP may not represent the final remedy for this Site.

The proposed future use of the Site will continue to be as a manufacturing facility. Given the known and anticipated Site conditions, the interim remedial objectives presented in the Revised IRMWP were as follows:

- Reduce soil contamination, to the extent practicable in the B-8 source area; and
- Reduce the impacts of contaminated soil in the B-8 source area to groundwater and subsequently to human health and the environment.

1.2.2 Standards, Criteria and Guidelines (SCGs)

The DEC requires that remedial designs conform to “standards and criteria” that are generally applicable, consistently applied, and officially promulgated, that are either directly applicable, or that are not directly applicable but are relevant and appropriate, unless good cause exists why conformity should be dispensed with.

Given the physical constraints of this project, the goal of the Interim Remedial Measures was to remove as much of the most significantly TCE-impacted material as practical within the limited B-8 source area workspace. The potential chemical-specific SCGs for the proposed remediation work at the Site were as follows:

- DEC Recommended Soil Cleanup Objectives (DEC RSCOs): Determination of Soil Cleanup Objectives and Cleanup Levels [DEC Technical and Administrative Guidance Memorandum 4046, January 24, 1994 (revised July 2001)].
- DEC Groundwater Standards and Guidance Values: Ambient Water Quality Standards and Guidance Values [DEC Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); October 22, 1993. Reissued June 1998. April 2000 Addendum.]

Comparison of previously collected soil data to DEC RSCOs is presented in Tables 9a–13 and comparison of investigation-derived groundwater data to Class GA Standards is presented in Tables 14-17.

Other SCGs, which were identified in the Revised IRMWPs for potential applicability to remedial alternatives or remedial actions, included:

- Soils from the Site which displayed the characteristic of a hazardous waste were to be managed in accordance with regulations specified in 6 NYCRR 371 and 373;
- Soils from the Site, which contain constituents from listed hazardous waste, were to be managed as hazardous waste;
- Groundwater encountered during excavation activities was expected to potentially require removal and disposal in accordance with hazardous waste regulations or with industrial pretreatment requirements of the treatment system to which they discharge; and
- Personnel protection measures and training programs were required for construction laborers and oversight personnel in accordance with 29 CFR 1910 and 1926.

1.3 Overview of Interim Remedial Measures

The following environmental remediation activities were completed at the Site to meet the Revised IRMWP objectives as stated in Section 1.2:

- Site preparation, including installation of temporary structural supports for the mezzanine located in the B-8 source area, establishment and protection of work and support areas, removal of an exterior window and wall section to create a temporary doorway, and removal of concrete flooring within the proposed excavation footprint;
- Excavation, screening and staging of TCE-impacted soils in the vicinity of the B-8 source area;
- Collection and laboratory analysis of excavation sidewall and bottom soil samples;
- Backfill and grading of the excavation area with imported fill materials;
- Advancement of soil borings and installation of two recovery wells within the excavation footprint and collection and analysis of selected soil and groundwater samples;
- Implementation of a Site-specific HASP and CAMP throughout the duration of the Interim Remedial Measures construction activities;
- Waste characterization and off-Site transportation and disposal of staged remediation construction debris and excavation soil; and
- Site restoration, including replacement of the concrete floor in the disturbed area and replacement of the temporary doorway with a permanent doorway.

These activities are summarized in the following sections and supported by the figures, tables and appendices included herein and the Record Drawings provided as a separately bound drawing set.

1.4 Overview of Project Participants

Sear-Brown was retained by Buell to coordinate and provide construction observation and environmental monitoring, sampling and documentation services during the implementation of the Revised IRMWP at the Site. Sear-Brown retained the following laboratory analysis and data usability review services as part of the implementation of the Revised IRMWP at the Site:

- Laboratory analytical work was performed by Columbia Analytical Services, Inc. (Columbia), a laboratory certified by the DEC to provide Analytical Services Protocol (ASP) Category B deliverables as required by the Revised IRMWP.
- A Data Usability Review was conducted by Data Validation Services, Inc., and a Data Usability Summary Report (DUSR) was subsequently prepared in accordance with DEC guidance revised September 1997.

Buell contracted with SLC Environmental Services, Inc. (SLC) to perform the remedial construction activities required of the Revised IRMWP. SLC retained the services of the following subcontractors to perform the masonry work, structural support evaluation and waste characterization, transportation and disposal tasks:

- The masonry work, including the temporary doorway installation, concrete floor restoration and permanent doorway installation, was conducted by General Masonry, Inc.;
- Structural engineering and excavation support evaluations conducted prior to and during the implementation of the Interim Remedial Measures construction activities were performed by GZA GeoEnvironmental of New York (GZA);
- The pre-construction and post-construction structural surveys were performed by Wendel Duchscherer Survey (Wendel);
- Laboratory analysis for disposal facility characterization and approval was conducted by Severn Trent Laboratories, Inc.;
- Transportation of roll-offs to and from the Site was conducted by Price Trucking and Buffalo Fuels; and
- Roll-offs were transported to and disposed at the Chemical Waste Management (CWM) Chemical Services, Inc. facility in Model City, New York or at GSI Environment, Inc. in Sherbrooke, Quebec, Canada.

The DEC provided daily construction observation for the duration of the intrusive remedial activities implemented per the Revised IRMWP. Mr. Robert Long was the on-Site DEC representative and liaison to the DEC project manager, Mr. Frank Sowers, for the Interim Remedial Measures scope of work.

2.0 Site Background

2.1 Site Location and History

The current Site is identified as tax parcel # 135.05-1-36.1 and consists of approximately 2 acres with an approximate total building area of 25,000 square feet. The Site originally consisted of a 0.67-acre parcel with an approximate 13,000 square foot building located within a commercial and industrial developed area. Originally constructed in 1957, the on-Site building underwent expansion in 1981 and 1983. Prior to the 1950s the Site was reportedly used for agriculture. A second parcel was acquired (portion of a former bowling alley property to the north) and a 12,000 square foot addition was completed in 2000 to bring the building to its current size.

The Site is owned and operated by Buell, which employs approximately 60 personnel in the manufacture of automatic screw machine parts. The Building Layout Plan is included on Record Drawings EN-3 and EN-4.

2.2 Previous Site Investigations

The following provides a summary of previous environmental investigations completed at the Site:

- Soil Gas Investigation prepared by Lozier Architect/Engineers, Feb. 3, 1989;
- Documentation regarding removal of two solvent storage tanks and excavation of an adjacent drainage trench, approx. 3 ft. x 3 ft. x 75 ft., circa June 1989; the drainage trench that was excavated was located outside the building;
- Phase I ESA Report prepared by Niagara Frontier Consulting Services, Jan. 23, 1998 for the northern portion of the Buell property;
- Phase I ESA Report prepared by Niagara Frontier Consulting Services, Jan. 28, 1999;
- Phase II Environmental Site Assessment by C and O Technologies, July 27, 1999;
- Phase II Confirmation Testing by Sear-Brown, Sept. 17, 1999; and
- Voluntary Investigation by Sear-Brown, on-going since March 2002.

The reader is referred to the September 2001 Voluntary Investigation Work Plan for additional background on the investigations that preceded the VCA.

Buell entered into the DEC Voluntary Cleanup Program in February 2002 to further investigate and, if necessary, remediate the Site. Pursuant to the executed VCA (Index No. V00330-8), a Voluntary Investigation Work Plan was prepared and submitted to the DEC. Since approval of the Voluntary Investigation Work Plan, the following investigation activities have been completed:

- Utility Right of Way Investigation;
- Geoprobe soil borings in both interior and exterior portions of the Site;
- Groundwater monitoring wells installed on/or adjacent to the Site; and
- Soil and groundwater sampling and analysis.

Investigations completed to date have provided data used to generate field and analytical tables and contaminant concentration contour plots that have been included in this IRMFER for completeness. Investigation locations (i.e., soil boring and monitoring wells) are shown on Figures 1-3 and on Record Drawings EN-3 and EN-3A. Summaries of field measurement data and analytical data obtained for soil and groundwater during the previously conducted investigation activities are provided in Tables 1-9b and Tables 11-17.

2.3 Site Geology/Hydrogeology

The Buell Site and adjacent properties are situated on a lacustrine (lake-related) sand-dominated strandline or bar complex that developed during the process of Pleistocene glacial retreat from the Rochester area. Except where bisected by the Genesee River, the sandy surficial deposits observed in the investigation area are laterally contiguous and contemporary with the sands that comprise the Pinnacle Hills Moraine to the east.

On the subject property, the surficial lacustrine sands have been mapped as Claverack loamy sand (Heffner and Goodman, 1973). The soil survey description of these soils states that they are "deep, moderately well-drained, coarse-textured soils that border or occur in old glacial lakebeds. These soils formed in sandy deposits underlain by lacustrine high-lime clay at a depth of 20 to 40 inches."

The surficial sandy deposits have been fully penetrated by multiple soil borings in the investigation area to reveal finer-grained lacustrine deposits and glacial till at depth. The thickness of the surficial sands and the clay content of the underlying lacustrine deposits, as observed in borings, vary across the site. One boring, for monitoring well MW-2D, extends fully through the glacial overburden and into the underlying dolomite bedrock. At the MW-2D location, the total unconsolidated overburden sequence overlying bedrock is 37.3 feet. Based upon the generally flat, bedrock-controlled topography in the vicinity of the project area, this general depth to bedrock is anticipated to be consistent within the investigation area. Based upon boring logs from numerous Geoprobe borings and hollow stem auger borings completed within the investigation area to date, the

following strata, in descending order, were encountered within localized areas of the overburden profile:

- A thin veneer of fill and/or road base up to 3 feet thick;
- Surficial lacustrine sand deposits recognized as the Claverack loamy sand up to 21 feet thick;
- A lacustrine, often varved silt and clay, up to 10 feet thick;
- A discontinuous clay-rich till up to 6 feet thick that may grade laterally into the lower portion of the lacustrine varved silt and clay;
- A discontinuous, lacustrine lowstand sand up to 4 feet thick; and
- A basal lodgement till.

The bedrock strata observed in the core from MW-2D are tentatively assigned to the Eramosa Formation of the Silurian Lockport Dolostone. The lower portion of this formation is directly observable in contact with the underlying Vinemount Member of the Goat Island Formation on Route 390 approximately 1.2 miles north of the investigation area. Bedrock strata generally dip to the south at about 40 feet per mile in the vicinity of the investigation area. Based upon this assumed trend, the bedrock beneath the investigation area would be anticipated to be situated approximately 50 feet above the basal contact of the Eramosa Formation. This unit is characterized by thick-bedded to massive-bedded, biostromal (i.e. containing low, flat-topped but laterally extensive fossil reefs) dolostone.

Water level data recorded during the Voluntary Investigation activities completed to date are summarized in Table 4. Based upon data collected during these activities, depths to water beneath the Site vary from approximately 1.6 feet to 6.9 feet below ground surface (ft. bgs) during the spring, and from 4.1 to 16.0 ft. bgs during the late summer. At these depths, the water table would appear to reside in the surficial lacustrine sand unit throughout the year in all parts of the investigation area except its extreme southern limit. Beneath the 385 Buell Road property immediately south of the Buell Automatics property, the late summer seasonal low water table appears to reside within the clay till and/or deeper overburden units, which underlie the surficial sand deposit.

Water level data from March 31, 2003 have been used to generate a water table contour map, which is presented in Figure 3. The water table contour plot indicates that groundwater flow beneath the portion of the Site that was the subject of the IRM proceeds in a south-southwesterly direction at a depth of 2 to 4 ft. bgs under the building and immediately west of the building. The depth to groundwater increases outside the building, with gradients steepening rapidly to the southwest.

Five of the on-Site monitoring wells were slug tested as part of the VCA investigation activities to derive a hydraulic conductivity estimate for the unconsolidated overburden. A summary of hydraulic conductivity values is provided in Table 8. Based upon the position of the water table, it is generally

assumed that the calculated hydraulic conductivity values are reflective of the silty sand that comprises the uppermost surficial unit. The geometric mean hydraulic conductivity value based upon the data in Table 8 is 3.73×10^{-4} cm/sec.

Using the geometric mean hydraulic conductivity value, the hydraulic gradient between wells MW-9 and MW-11 as reflected in the water table contour map, and an estimated 25% porosity for the surficial silty sand unit, an estimated average linear velocity of groundwater flow from the impacted portion of the Site can be calculated. The hydraulic gradient between MW-9 and MW-11 is approximately 0.23. Using this value and the aforementioned estimates for hydraulic conductivity and porosity, the average linear velocity of groundwater flow is calculated to potentially be on the order of 300-feet per year.

2.4 Contaminant Migration Pathways

In preparing the IRMWP, the contaminant migration pathways originating from the impacted subsurface soils in the area of the proposed source removal (i.e., B-8 area) were evaluated and identified as vapor through cracks, seams, or other openings in floor slabs and groundwater flowing through the source material.

2.5 Potential Public Health and Environmental Effects

The evaluation of potential public health and environmental effects conducted in preparation of the IRMWP included media specific (i.e., soil and groundwater) and chemical specific [i.e., chlorinated and petroleum volatile organic compounds (VOCs)] exposure scenarios. Since there are no sensitive environmental features (e.g., wetlands, unique habitats, or endangered species) associated with this predominantly asphalt and building-covered Site, it was most appropriate to focus on potential human health concerns.

2.5.1 Chemical Constituents of Concern

Given the documented contamination of soil at the Site with chlorinated solvents, specifically trichloroethene (TCE), the IRMWP was intended to address the most significant of this soil contamination around B-8 and nearby boring B-26. Elevated levels of TCE were encountered in B-8 and B-26 at levels of 14,000,000 parts per billion (ppb) at a depth of 1.8 to 2.5 ft. bgs and 18,000 ppb at a depth of 2.5 to 3.0 ft. bgs, respectively.

The VOC data for the investigation-derived soil and groundwater samples are presented in Tables 9a (Geoprobe borings) and 9b (monitoring well borings) and Table 14, respectively. As indicated by the data, the TCE-contaminated soil concentration encountered in B-8 was at least two orders of magnitude greater than any other area of the site investigated.

As can be seen in Table 11, boring B-8 was also analyzed for semi-volatile organic compounds (SVOCs), several of which were detected at levels that exceed DEC RSCOs.

2.5.2 Exposure Considerations

The Site is located in an area with both commercial and industrial uses. The nearest commercial structure to the Site is the former All Around Travel Building located approximately 20 feet to the south. The Site is bounded on the north by vacant land, to the south by the former All Around Travel (unoccupied), to the west by Five Star Tool Company and to the east by Buell Road, across from which is a commercial parking lot. A Comfort Inn is located approximately 110 feet to the south of the Site, beyond the All Around Travel building. No residences are located in the immediate area, and groundwater is not used as a drinking water source in this area.

Currently the Site is an active industrial facility operated by Buell. General access by the public is not permitted, and the Site is paved. A small lawn covered area is present in front of the building where soil contamination has not been encountered.

The Revised IRMWP was designed to reduce to the extent practical the most significant source area identified at the Site, thereby reducing the potential generation of vapors, and reducing further contaminant contributions to groundwater.

3.0 Site Preparation and Maintenance

This section of the IRMFER presents the initial Site preparation tasks that were performed prior to the remediation excavation activities and those maintained for the duration of the Interim Remedial Measures. Record Drawing EN-3 presents the Site staging, work and support areas established for the project. Select project photographs are included in Appendix A.

3.1 Maintenance and Protection of Traffic (MPT)

In order to protect the public and in order to maintain equipment haul routes and staging areas for the remediation scope of work at the Site, the private road adjacent to the south side of the Buell building was closed to vehicular and pedestrian traffic for the duration of the project. This was accomplished through the posting of a sign at the entrance of the alley at Buell Road that re-directed vehicles and pedestrians to a secondary entrance to the north of the Buell building. Orange construction cones were used to further block access to the alley at the southeast corner of the Buell building.

3.2 Temporary Doorway Installation

To facilitate equipment access to the work area and loading out of removed concrete and soils, a temporary doorway was constructed through the south wall of the Buell building on December 18, 2003. The temporary access way required the removal of an existing window, removal and/or cutting of adjacent masonry blocks, and installation of temporary framing supports and plywood doors for maintenance of safety and security during the project. During non-working hours, the temporary doorway was closed and secured from the inside and the building was locked. At the request of Buell, the temporary access way was converted into a permanent doorway as part of the Site restoration activities.

3.3 Temporary Mezzanine and Excavation Support Installation

The excavation area was located beneath a mezzanine structure upon which Buell prepares and stores packaged inventory for shipment. GZA conducted a Site visit on December 16, 2003, to evaluate the conditions in the remediation work area. GZA proposed temporary support and excavation procedures for maintaining structural integrity during implementation of the Revised IRMWP. A summary of their findings and recommendations are included in Appendix B.

A pre-construction survey of the structural elements evaluated in preparation for the temporary mezzanine and excavation support installations was performed by Wendel on December 18, 2003. Subsequent to Site restoration activities, Wendel returned to conduct a post-construction survey to document the effect, if any, of the completed Interim Remedial Measures on the evaluated structural elements. A copy of the survey report is included as Appendix C.

On December 20, 2003, SLC installed the temporary supports for the mezzanine structure. During the course of the Interim Remedial Measures, additional excavation to the southwest was requested by the DEC. This request resulted in GZA's re-evaluation and re-positioning of the temporary mezzanine support in that area.

Based on the foundation walls being deeper than anticipated, installation of subsurface concrete excavation supports at the perimeter of the excavation work area were not required as determined by GZA (see Section 4.1).

3.4 Work Area Ventilation System Installation

The work area for the Interim Remedial Measures was located within the shipping and staging area of the Buell building. The remediation work area was enclosed with fire-retardant polyethylene sheeting to mitigate potential air quality conditions in the surrounding interior work space from dust and vapors generated during implementation of the Revised IRMWP. Two access points, one at the interior doorway to the facility's "Drying Staging Area" (DSA) and one at the temporary exterior doorway (see Section 3.2), were provided for equipment, materials and/or personnel access.

SLC established a ventilation system for the work area to mitigate equipment exhaust, airborne dust and volatile organic vapor accumulation during implementation of Interim Remedial Measures. The system was vented to the exterior with flexible hose to the western side of the Buell building and was secured below the roofline. A sampling port was provided at the base of the hose for routine monitoring by Sear-Brown as part of the CAMP implementation activities (see Section 7.0).

3.5 Support Area Preparation

As stated above, the work area for the remediation scope of work was located inside the Buell building and was established with two support areas, one interior and one exterior. The interior support area was established at the doorway to the facility's DSA and included a personnel decontamination area. The exterior support area was used for equipment

staging and was located to the south of the temporary exterior door in the closed alley.

3.6 Haul Route Preparation

It was proposed in the Revised IRMWP that the exterior haul route between the work area and the roll-off staging area be prepared with a polyethylene and filter-fabric lining to contain potential spillage of impacted materials from the skid steer loader. During the course of the concrete floor removal and initial trenching activities, Sear-Brown and the DEC re-evaluated the transportation methods due to practicality and equipment tracking issues. DEC approved removal of the poly sheeting, filter-fabric, and plywood lined pathway, conditional on scraping the asphalt area of residual ice/snow accumulation, monitoring and maintaining the pathway in a clean condition throughout the duration of soil/concrete removal activities, and limiting the placement of wastes in the skid steer loader bucket such that they did not over top the sides of the bucket to minimize the potential for spillage.

3.7 Concrete Removal

On December 20 and 21, 2003, approximately 6 cubic yards of concrete flooring were saw cut and removed from the original excavation footprint proposed in the Revised IRMWP. The concrete was staged in a lined and covered roll-off (Roll-off ID# Price X-3) for future waste characterization sampling, transportation and disposal.

During the course of the remedial excavation activities, a secondary concrete slab was encountered within the northern portion of the original excavation footprint. This slab was subsequently removed along with an asphalt base that appeared to extend beyond the slab towards the western and southwestern limits of the excavation area. In addition, a 10-ft. by 4-ft. area extending beyond the southwest limits of the original excavation footprint was also sawcut and removed to facilitate further excavation at the DEC's request. The secondary slab and asphalt and additional concrete flooring were removed and staged in a lined and covered roll-off (Roll-off ID# Price 2009) for future waste characterization sampling, transportation and disposal.

Corresponding characterization analytical results are summarized in Table 18 and presented in Appendix D. Waste disposal arrangements are discussed in Section 4.4 and associated disposal paperwork is included in Appendix E.

4.0 Interim Remedial Measures

In accordance with the goals of the Interim Remedial Measures (see Section 1.2.1), the remedial excavation activities completed at the Site were focused on the removal of TCE-impacted soil in the vicinity of borings B-8 and B-26. Boring B-8 exhibited the highest documented TCE concentration at the Site during previous investigation work (see Section 2.5.1, and Tables 9a and 9b). A number of structural considerations imposed constraints on the width and depth of the excavation in this source area. Given the known physical limitations, the excavation proposed in the Revised IRMWP was restricted to a 17-ft. by 25-ft. area comprising the B-8 and B-26 locations. The depth was proposed to extend to 6.5 ft. below the existing floor surface based on anticipated subsurface conditions and associated building foundation subsidence concerns.

SLC began soil removal activities on December 21, 2003, subsequent to removal of the concrete flooring within the 17-ft. by 25-ft. area. Sear-Brown provided environmental oversight and sampling during the remedial excavation activities and implemented the CAMP as described in Section 7.0. A total of approximately 95 cubic yards of contaminated soil was removed as part of the excavation program, which proceeded to the approximate limits shown on Record Drawings EN-3 and EN-3A. A summary of the excavation activities is provided below.

4.1 *Soil Excavation Activities*

Due to the presence of foundation walls along the eastern and southern limits of the proposed excavation area, it was anticipated that a trench would first be excavated around the perimeter of the 17-ft. by 25-ft. area to allow the installation of a reinforced concrete wall to a depth of 7 ft. below floor grade (bfg). The wall would then be installed to prevent caving of sidewalls and minimize the potential for damage to the building structure during remediation activities.

SLC initiated the trenching activities on December 21, 2003. During trenching along the eastern foundation wall, a secondary concrete pad and asphalt base were encountered. The concrete pad and asphalt were found to comprise the northern portion of the excavation area and extend to its western limits. In two locations, steel pipes resembling prior equipment supports were encountered along the northeastern limit of the excavation footprint and were cast in concrete, which was later found to extend several feet beyond the bottom of the secondary slab. Additionally, the eastern and southern footer walls appeared to extend to depths greater than 5 ft. bfg based on the trenching activities. As a result of these field findings, the approach to the excavation process was modified such that installation of the concrete excavation support walls was no longer needed. Instead, the excavation area was subdivided into quarters to

permit soil removal, excavation sampling and backfilling without the installation of support walls.

4.1.1 Soil Excavation, Screening and Staging

From December 21 through 27, 2003, SLC removed contaminated soil and backfilled the excavation within the 17-ft. by 25-ft. excavation footprint proposed in the Revised IRMWP. SLC completed excavation and backfill of the southern portion of the excavation area prior to removal of the secondary slab, asphalt and underlying soils within the northern portion of the proposed excavation area. The southern portion of the excavation was completed to a depth of approximately 7 ft. bfg and yielded approximately 50 cubic yards of contaminated soil.

Based on preliminary analytical results obtained from interim Geoprobe[®] borings advanced beneath the secondary concrete slab (see Section 4.2), the extent of the proposed soil removal within the northern portion of the excavation was re-evaluated. Sear-Brown proposed a slight modification of the northern and northeastern limits of the excavation area and DEC concurred with the decision, with the condition that further excavation to the southwest be conducted. As a result, soil excavation proceeded at an approximate 2:1 slope along the northern extent of the excavation, and soil in the immediate vicinity of the encountered cast-in-concrete steel pipes at the northeastern extent of the excavation footprint was left in place. The northern portion of the excavation area reached a maximum depth of approximately 6.5 ft. bfg towards the northwestern limit and yielded approximately 35.5 cubic yards of impacted soil.

Per the request of the DEC, further excavation to the southwest of the original excavation footprint was conducted on December 29, 2003. Following re-evaluation of the structural supports and excavation plan by GZA for this additional work, SLC re-positioned one of the temporary mezzanine supports and conducted a limited 4 ft. by 10 ft. excavation at the southwestern extent of the original excavation footprint. Approximately 9.5 cubic yards of impacted soil were removed from this portion of the excavation, which extended to a depth of approximately 6.8 ft. bfg.

During the course of the remedial excavation activities, no appreciable groundwater accumulated within the excavation. Product was encountered at the bottom of the southeastern portion of the excavation and near the central pier. In addition, a shallow product seep was observed at the northwest corner of the

excavation area and appeared to track along an old asphalt layer. This product appeared to be petroleum-related. Due to the minimal rate of product accumulation observed during excavation activities, the product was removed with impacted soils and absorbent pads to the extent practical. No additional groundwater or product management was required during the remedial excavation activities.

As excavation was taking place, soil from the excavations was periodically field screened by Sear-Brown using a calibrated ThermoEnvironmental Model 580B photoionization detector (PID) equipped with an 11.8 eV lamp. Field screening procedures consisted of taking readings of the excavated soil that had been loaded into the skid steer bucket. Measurements were taken at several points along the length of the bucket and from approximately 4 to 6 inches into the soil. The readings were recorded in a field log and used to direct soil segregation and staging.

Soils were segregated into designated roll-offs based on the following field screening criteria: soils exhibiting PID readings of ≤ 50 parts per million (ppm) were expected to be classified as non-hazardous; soils exhibiting PID readings of 50-1,000 ppm were expected to be classified as hazardous not requiring treatment; and soils exhibiting PID readings of $> 1,000$ ppm were expected to be classified as hazardous requiring treatment. Segregation based on this criteria was intended to decrease the volume of soil that would require special handling as hazardous waste requiring treatment following characterization sampling and laboratory analysis (see Section 4.4).

Peak PID measurements obtained from the excavated soil ranged from approximately 2 ppm to 9,500 ppm, with the highest readings obtained from soil excavated from approximately 2 ft. to 4 ft. bfg at the southwestern portion of the original excavation footprint. This area correlates to the location of the floor drain that was removed during concrete floor removal activities and found to be underlain with approximately 6-10 inches of pea gravel.

Due to the PID readings that were encountered the soil was segregated as follows:

0-50 ppm
>50 ppm

Field screening of soil remaining on-Site at areas along the excavation limits consisted of measuring the headspace readings of containerized samples which had been collected as part of the confirmatory soil sampling activities. The sealed four-ounce containers were allowed to equilibrate to ambient temperature within the Buell building and the PID was used to screen the accumulated vapors in the container headspace for the presence of volatile organic vapors. Peak headspace readings obtained from the soils remaining on-Site at areas along the excavation limits are included in Table 1a. Record Drawing EN-3A shows the corresponding locations of the field screened soils.

4.1.2 Soil Sampling and Laboratory Analysis

In addition to the field screening procedures, confirmatory soil samples were collected at the limits of the excavation and submitted for laboratory analysis. Six (6) soil samples (grab samples) were proposed in the Revised IRMWP to be collected from the excavation area (four sidewall samples and two bottom samples) during trenching for the excavation support wall. These samples plus a matrix-spike, a matrix-spike duplicate, a duplicate, a rinse blank and a trip blank were proposed for analysis of Target Compound List (TCL) VOCs and tentatively identified compounds (TICs) using DEC Analytical Services Protocol (ASP).

Given the unanticipated Site conditions encountered during initial trenching activities, the excavation support walls were not needed. As a result, trenching around the perimeter of the excavation area was not conducted, and confirmatory soil samples were subsequently collected during the course of the excavation activities. Additional sidewall and bottom samples were collected as deemed necessary to appropriately characterize shallow and deep soil conditions based on contaminant impacts observed in the field.

As shown on Record Drawing No. EN-3A, a total of 13 confirmatory soil samples were taken from the completed excavation area for laboratory analysis. A soil sample summary is provided in Table 2.

Eight (8) sidewall samples were collected from the lateral limits of the remedial excavation area. One (1) of these eight sidewall samples was collected from the west wall of the original excavation, prior to additional soil removal that was performed in the southwesterly direction. Two (2) soil samples were taken from soil that was left in place (approximately 1 cubic yard of soil) for

structural stability beneath the central pier supporting the mezzanine. In addition, three (3) bottom samples were collected to evaluate residual impacts at the vertical limits of the excavation. An additional bottom sample RW1-BOTT was collected during the subsequent installation of recovery well RW1, which is discussed in Section 4.3.

In addition to the confirmatory soil samples, a matrix-spike, a matrix-spike duplicate, a duplicate and a trip blank were also submitted for laboratory analysis. A rinse blank was not collected given the method of sample collection (i.e., direct filling of soil sample jars). Samples were taken from soils that were not in contact with the equipment (i.e., excavator bucket or shovel) used for collection and were placed in laboratory-supplied 4-ounce jars.

The DEC also collected and submitted confirmatory soil samples from the remediation excavation to Columbia. Both the Sear-Brown samples and the DEC samples were submitted for analysis of TCL VOCs and TICs using DEC ASP. It should be noted, however, that the ASP methods that were applied to the analysis of the Sear-Brown and DEC data differed. The analysis of the Sear-Brown samples was performed using ASP Method 95-1 which was consistent with all prior data collection at the Buell site during the previous Voluntary Investigation activities. The DEC samples were analyzed using ASP 2000. As a result, the DEC analytical results report data for 15 additional target analytes that were not reported as target analytes in the Sear-Brown data. Despite the analytical differences, none of the additional target analytes presented in the DEC data were reported at concentrations above their respective RSCOs. Results of the DEC samples are summarized alongside the Sear-Brown confirmatory soil sample results in Tables 9a – 10, and the DEC laboratory analytical reports are included in Appendix H.

As proposed in the Revised IRMWP, a data usability review was performed by Data Validation Services, Inc. and consisted of a Data Usability Summary Report (DUSR), in accordance with DEC guidance revised September 1997. The Data Usability Summary Report indicates that the data were acceptable with only minor modifications. The analytical results are summarized in Table 10. The DUSR is presented in Appendix G and the laboratory analytical reports are included in Appendix H.

As previously discussed, three types of confirmatory soil samples were collected: from the excavation sidewalls; from the soil beneath the center building pier that was left in place to support the

mezzanine; and from the excavation bottom. The following discussions of Sear-Brown's analytical results are presented in groups by these three types of confirmatory samples. In general, DEC's confirmatory analytical results were similar to Sear-Brown's analytical results.

Sidewall Samples

The confirmatory analytical results from the north, northwest and west sidewalls of the excavation, Samples BU-NWALL-S, BU-NWWALL-SHAL-S and BU-WWALL2-S, respectively, are all below RSCOs. An interim sidewall sample collected from the west wall of the original excavation, sample BU-WWALL-S, yielded elevated TCE concentrations, however this area was subsequently excavated and disposed off-site when the excavation was extended to the southwest.

The confirmatory analytical results from the northeast sidewall of the excavation, Sample BU-NEWALL-S, were below their individual RSCOs. However, total TICs were reported above the RSCO for total VOCs.

The confirmatory analytical results from the southeast sidewall of the excavation, BU-SEWALL-S, are above RSCOs for TCE and several of its related chlorinated compounds. The concentration of TCE is two orders of magnitude less than what was previously encountered in nearby boring B-8. This sampling location is situated between the removed floor drain, that was the suspected source of the most significantly affected soil, and the room that was most recently used for TCE degreasing operations. The TCE degreasing operations have since been terminated at the Site. No further excavation could be performed in the easterly direction due to the presence of an interior load-bearing building wall.

The confirmatory analytical results from the south sidewall of the excavation, Samples BU-SWWALL-S (5.3 ft) and BU-SWALL-S (6.0 ft.), are below RSCOs with the exception of a slightly elevated TCE concentration in the shallower of the two samples. However, the concentration of TCE is four orders of magnitude less than what was previously encountered in nearby boring B-8. No further excavation could be performed in this southerly direction due to the presence of the exterior load-bearing building wall.

Pier Sidewall Samples

The confirmatory analytical results from the two sidewall samples collected from the estimated one cubic yard of soil that was left in place to support the mezzanine pier, BU-PIER-NSHAL-S (2.8 ft.) and BU-PIER-NMID-S (5.0 ft.), are below RSCOs with the exception of TCE in the shallow sample and total VOC TICs for both samples. Once again, further excavation in this area could not be performed due to the soil being under the pier that was supporting the mezzanine. Given the absence of elevated TCE concentrations in the deeper sample, it appears that only a small quantity of shallow TCE impacted soil remains in this location.

Bottom Samples

The confirmatory analytical results from the three bottom samples, BU-NWWALL-BOTT-S, BU-WBOTT-S and BU-SEBOTT-S, are below RSCOs for two of the three samples. Only the southeast bottom sample, BU-SEBOTT-S, was reported to contain concentrations of TCE and its related chlorinated VOCs above their respective RSCOs. This sampling location was situated in close proximity to the former floor drain which was the suspected source of the most significant impacts. Excavation to further depths in this area was limited by potential building subsidence considerations. However, the residual TCE concentration is two orders of magnitude below the concentration that was previously encountered in nearby boring B-8.

In summary, based on the confirmatory analytical results, the excavation program achieved its intended goal of removing the most affected source soils given the limitations imposed by the building and its related structural components.

4.1.3 Backfill of Excavation

SLC periodically performed backfilling of the excavation as necessary to maintain structural integrity and accommodate equipment mobility and reach within the work area. Subsequent to obtaining confirmatory samples within a section of the excavation area, the completed portion of the excavation was backfilled with imported fill sand from Elam Sand and Gravel, Corp. (Elam) located in Geneva, New York. The fill sand was selected for use as backfill material based on the composition of the native soils at the Site. A Certificate of Clean Fill for the material used is included in Appendix I.

The excavation areas were backfilled in one-foot lifts and compacted with the bucket of the skid steer to approximately 3.5 ft. bfg, at which point a vibratory plate compactor was used. Stone was placed above the imported fill sand across the entire excavation footprint to approximately 6 inches bfg in preparation for the concrete floor restoration.

4.2 *Soil Boring Activities*

Due to the presence of the secondary concrete slab at the northern portion of the remedial excavation footprint, four Geoprobe[®] borings (GP-1 through GP-4) were advanced through the secondary concrete slab to evaluate underlying conditions in that area prior to proceeding with the removal of the secondary concrete slab. Based on field observations and PID soil screening measurements, six (6) soil samples from the borings were submitted for expedited analytical turnaround to assess the extent of contaminant impacts. A PID summary and sample summary for the Interim Remedial Measures Geoprobe[®] borings are provided in Tables 1 and 2, respectively. The Geoprobe[®] boring locations are shown on Record Drawing EN-3A, and boring logs are included in Appendix J.

The soil samples were submitted to Columbia for analysis of TCL VOCs and TICs. Due to expedited turnaround time requirements, these samples were not analyzed using DEC ASP. Preliminary analytical results were provided and indicated that impacts from chlorinated VOCs were limited at the northern extent of the excavation footprint both horizontally and vertically. As a result, soil removal at the northern limits of the original excavation footprint was slightly modified as approved by DEC (see Section 4.1.1).

At the completion of the remedial excavation activities, six (6) additional Geoprobe[®] borings (GP-5 through GP-10) were advanced within the southern portion of the excavated area to evaluate the vertical extent of impacts below the excavated depth. Five (5) soil samples were submitted to Columbia for laboratory analysis from these borings. The PID summary and sample summary from these Geoprobe[®] borings are also provided in Tables 1 and 2, respectively. The boring locations are shown on Record Drawing EN-3A, and boring logs are included in Appendix J.

The analytical results from soil samples collected from Geoprobe[®] borings GP-1 through GP-4 indicate that TCE and related solvent impacts above the RSCOs were present in the 1 – 4 ft. bfg interval at the GP-3 location. This material was removed as part of the Interim Remediation Measures excavation program. At depths beyond the extent of soil removal in the northern portion of the excavation footprint, no individual VOC was reported above its respective RSCO; however, the total TIC concentration

in samples from the GP-2, 5-7 ft. bfg interval and the GP-3, 8-9 ft. bfg interval were above the RSCO of 10,000 ppb for total VOCs. Review of the TIC data from these two samples indicate the individual compounds are petroleum derived, and not chlorinated solvent derived compounds.

The analytical results from the soil samples collected from Geoprobe® borings GP-5 through GP-10 indicate TCE impacts above the RSCOs at depths of 7.5 to 9.5 ft bfg beneath the southern portion of the remediated area. Soil boring samples from depths greater than 10 ft bfg in that area indicate that the concentrations of TCE and related solvent compounds decrease significantly at these depths to levels which are below the RSCOs.

The analytical results are summarized in Table 9a. The DUSR is presented in Appendix G and the laboratory analytical reports are presented in Appendix K.

4.3 *Recovery Well Installations*

Subsequent to backfill, SLC installed two, six-inch stainless-steel wells within the excavation footprint. Wells RW-1 and RW-2 were placed near the northwestern and southeastern corners of the excavation areas respectively, where product was observed during soil removal activities (see Section 4.1.1). The wells extended to the bottom of the excavated area (~6.5-7 ft. bfg) and were finished with roadboxes so they would be flush with the grade of the restored concrete floor. Well locations are shown on Record Drawing EN-3A, and well construction detail logs are included in Appendix L.

The purpose of the recovery well installations was to allow for future monitoring and recovery (if necessary) of product and/or groundwater within this area and to provide access for subsurface boring or treatment activities if necessary in the future.

One (1) soil sample was collected from the bottom of the RW-1 location, prior to the installation of the recovery well. The soil sample was submitted to Columbia for analysis of TCL VOCs and TICs using DEC ASP. The results are summarized in Table 9b and the analytical report is included in Appendix H.

The soil analytical results indicate that the three detected compounds in the RW1-BOTT sample - TCE, VC and Acetone - were all at concentrations well below their respective RSCOs. The DEC sample from the same location and depth indicated comparative findings.

Groundwater within of the two recovery wells was sampled on January 13, 2004. Groundwater samples were submitted to Columbia for analysis of TCL VOCs and TICs using DEC ASP. Laboratory analytical results are summarized in Table 14. The DUSR is presented in Appendix G, and the laboratory analytical reports are included in Appendix M.

Results for RW-1 exhibit low concentrations of target compounds and therefore effectively delineates the upgradient limits of groundwater impacts due to the source area.

Results for RW-2 exhibit elevated concentrations of TCE and associated solvent-related compounds including 1,1,1 TCA, cis-1,2 DCE, 1,2 DCA and VC. The elevated concentrations of target compounds are greater than those values previously reported in groundwater but are consistent with the expected concentrations within a source area immediately following a soil excavation program.

4.4 Waste Characterization and Disposal

Prior to off-site disposal of the removed concrete and contaminated soil, SLC conducted waste characterization sampling to determine if the stockpiled soil and concrete would be disposed off-site as non-hazardous or hazardous waste with or without pre-treatment. On January 2, 2004, SLC collected one composite sample from each of the 11 roll-offs staged at the Site under the supervision of Mr. Bob Long of the DEC and Sear-Brown's on-site representative. Each composite sample was submitted to STL for analysis of TCL VOCs by EPA Test Method 8260 and Toxicity Characteristic Leaching Procedure (TCLP) VOCs by EPA Test Method 1311/8260. The waste characterization data are summarized in Table 18 and the laboratory analytical reports are included in Appendix D.

SLC completed and submitted the waste characterization documentation to the proposed landfill disposal facilities for profiling and approval. As a result, a total of 77.53 tons of hazardous waste soil and concrete were transported to, and disposed at Chemical Waste Management in Model City, New York. A total of 45.91 tons of soil were transported to GSI in Sherbrooke, Quebec Canada for pre-treatment and disposal as hazardous waste. Copies of documentation relating to disposal of the wastes are included in Appendix E.

5.0 Site Restoration

5.1 Concrete Floor Replacement

Subsequent to backfill, the remaining 6-inches of the remedial excavation footprint was completed with structural concrete to the original grade, making it level with the existing concrete floor. Approximately 10-cy of wire mesh reinforced concrete was installed by General Masonry, Inc.

5.2 Permanent Doorway Completion

At the request of Buell, the temporary access way was converted into a permanent doorway as part of the Site restoration activities. A permanent steel door was installed by Buell subsequent to final masonry preparations by General Masonry, Inc.

6.0 Site Health and Safety

The Health and Safety Plan (HASP) provided in Appendix A of the Revised IRMWP was used by Sear-Brown employees. SLC developed a Site-specific HASP for the completion of their work and all other contractors conducting intrusive activities and/or working in exclusion areas were responsible for the development and implementation of their own HASPs. Daily Health and Safety meetings were conducted by Sear-Brown's and SLC's Site Safety Officer on-Site.

Monitoring of the Work Area, and the implementation of health and safety measures whenever action levels were met or exceeded, was performed in accordance with the Site-specific Health and Safety Plans prepared by Sear-Brown and SLC.

7.0 Community Air Monitoring

Sear-Brown performed community air monitoring during all intrusive work activities that created possible elevated VOC and/or particulate levels using the procedures outlined in Appendix B of the Revised IRMWP.

Community air monitoring measurements were recorded on daily log sheets and included information on background concentrations, real-time prevailing wind direction, and the location points for the scheduled readings. The monitoring locations were determined in consultation with the DEC, NYSDOH and MCDOH prior to and during the course of the remedial activities and included the following: upwind and downwind from the work area (real-time based on prevailing wind); exterior soil loading areas (i.e., roll-off staging area); work area ventilation exhaust (at sampling port in exhaust hose); support area; and administration office area (as necessary based on limited working hours of office personnel).

The work area ventilation system (see Section 3.4) combined with the periodic donning of respirators by personnel in the work area, was used as the primary means of addressing volatile organic vapor accumulation and exposure during the remedial activities. As a precautionary measure, a vapor suppressant product manufactured by Rusmar was applied to the southern excavation area at the end of the day to mitigate potential overnight build-up of volatile organic vapors within the building while the ventilation system was inactive. The use of Rusmar was approved by the DEC as a substitute for BiosolveTM (a surfactant) due to better applicability in treating vapors from chlorinated-related compounds. The Material Safety Data Sheet for Rusmar is included in Appendix F.

Sear-Brown reserved the right to stop any Site work that was deemed to pose a health and safety threat to its staff or the community. During the course of the remedial activities, work was periodically suspended due to VOC and/or particulate concentration concerns within the work area. Results of the community air monitoring did not indicate a health and safety threat to the community during the implementation of the Interim Remedial Measures described herein.

8.0 Conclusions

In summary, the Interim Remedial Measures conducted at the Buell Site in December 2003 and January 2004 have been completed in accordance with the December 2003 Revised IRMWP except where noted herein. Site preparation activities were performed satisfactorily to facilitate the excavation of TCE-impacted soils in the vicinity of the B-8 source area. Approximately 105 cubic yards (123.44 tons) of concrete and impacted soil was excavated and disposed of off-Site and two stainless-steel wells were installed within the excavation footprint to facilitate potential product recovery and/or groundwater monitoring/treatment efforts in the future. Based on the confirmatory analytical results, the excavation program achieved its intended goal of removing the most affected source soils given the limitations imposed by the building and its related structural components. Maximum soil concentrations were reduced by at least two orders of magnitude as a result of the Interim Remedial Measures.

Due to limitations posed by structural considerations, it was understood prior to implementation of the Revised IRMWP that the remedial excavation activities would not serve as the final remedy for Site contaminant impacts. An Investigation Work Plan Addendum, to address the investigation of remaining contamination at the Site, is being prepared in accordance with the executed BCA and will be submitted to the DEC under separate cover.

TABLE 1
SUMMARY OF PID HEADSPACE READINGS: BORINGS (ppm)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
<i><u>Phase I Boring and Well Installations: May 2002</u></i>			
MW-7	0-2	0	0
	2-4	0	0
	4-6	0	0
	6-8	0	0
	8-10	0	0
	10-12	0	0
	12-14	0	0
	14-16	0	0
	16-18	0	0
	18-20	0	0
MW-8	0-2	0	0
	2-4	0	0
	4-6	0	0
	6-8	0	0
	8-10	0	0
	10-12	0	0
	12-14	0	0
	14-16	3	0
	16-18	3	0
	18-20	19	0
	20-22	0	0
	22-24	0	0
MW-12	0-2	0	0
	2-4	0	0
	4-6	0	0
	6-8	0	0
	8-10	0	0
	10-12	0	0
	12-14	0	0
	14-16	0	0
	16-18	0	0
	18-20	0	0

TABLE 1
SUMMARY OF PID HEADSPACE READINGS: BORINGS (ppm)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
MW-13	0-2	0	0
	2-4	0	0
	4-6	0	0
	6-8	0	0
	8-10	0	0
	10-12	0	0
	12-14	0	0
	14-16	0	0
	16-18	0	0
	18-20	0	0
	20-22	0	0
	22-24	0	0
	24-26	0	0
	26-28	0	0
	28-30	0	0
	30-32	0	0
	32-34	0	0
<u><i>Phase II Boring and Well Installations: August 2002</i></u>			
MW-2D	0-2	177	0
	2-4	2.9	0
	4-6	0	0
	6-8	3.5	0
	8-10	23.3	0
	10-12	4.7	0
	12-14	0	0
	14-16	0	0
	16-18	0	0
	18-20	0	0
	20-22	0	0
	22-24	0	0
	24-26	0	0
	26-28	3.5	0
	29-31	0.5	0
	31-33	0	0
	33-35	0	0
	35-37	0	0
	37-37.3	0	0

TABLE 1
SUMMARY OF PID HEADSPACE READINGS: BORINGS (ppm)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
MW-6	0-2	0	0
	2-4	0	0
	4-6	0	0
	6-8	0	0
	8-10	0	0
	10-12	0	0
	12-14	0	0
	14-16	0	0
	16-16.3	0	0
	17-19	0	0
MW-9	0-2	0	0
	2-4	0	0
	4-6	1	0
	6-8	0	0
	8-10	0	0
	10-12	0	0
	12-14	0	0
	14-16	0	0
	16-18	0	0
	18-20	0	0
	20-22	0	0
	22-24	0	0
MW-10	0.5-2	0	0
	2-4	0	0
	4-6	0	0
	6-8	2	0
	8-10	14	0
	10-12	2	0
	12-14	0	0
	14-16	0	0
	16-18	0	0
	18-20	0	0
MW-11	0-2	1	0
	2-4	0	0
	4-6	0	0
	6-8	0	0
	8-10	0	0
	10-12	0	0
	12-14	0	0
	14-16	0	0
	16-18	0	0
	18-20	0	0

TABLE 1
SUMMARY OF PID HEADSPACE READINGS: BORINGS (ppm)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
B-8	1.8-2.5	3,400	0
	3.2-4.5	3,000	0
	5-6.5	2,200	0
B-9	1.5-2.5	17	0
	3.5-4.5	83	0
	5-6.5	223	0
B-10	1.5-2.5	118	0
	3-3.7	163	0
	3.7-4.5	91	0
	5-6	36	0
B-11	1.5-2	0	0
	3.5-4	10	0
	5.5-6	37	0
	7.5-8	42	0
	9.5-10	0	0
	11.5-12	4	0
B-12	1.8-2	0	0
	3.5-4	0	0
	4.0-4.3	48	0
	7.5-8	0	0
	10.5-11	0	0
B-13	1.5-2	0	0
	3-3.8	15	0
	4.5-5	0	0
	6.5-7	0	0
	9.5-10	0	0
B-14	1.5-2	0	0
	3.5-4	0	0
	7.5-8	0	0
	9.5-10	0	0
B-15	3-3.5	1	0
	3.5-4	54	0
	4.5-5	75	0
	6.5-7	4	0

TABLE 1
SUMMARY OF PID HEADSPACE READINGS: BORINGS (ppm)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
B-16	2.5-3	3	0
	3.5-4	3	0
	6-6.5	3	0
	7.5-8	3	0
	8.5-9	3	0
B-17	1.5-2	11	0
	3.5-4	13	0
	4.5-5	18	0
	6.5-7	15	0
	8.5-9	3	0
B-18	3.5-4	4	0
	4.5-5	104	0
	6.5-7	23	0
	9.2-10	0	0
<u>Interior Boring Program, May 2003</u>			
B-19	3.5-4	20.4	0
	6-6.5	1.3	0
	7.5-8	3.1	0
	9.5-10.2	1.3	0
B-20	3.5-4	7.7	0
	6-6.5	0.4	0
	7.5-8	7.2	0
	9.5-10	3.6	0
B-21	1.2-1.5	0.4	0
	3-4	0.9	0
	4.5-5	2.7	0
	7-8	0.4	0
B-22	3.5-4	1.3	0
	5.5-6	1.3	0
	7.5-8	0.9	0
B-23	1-2	160	0
	3-3.5	53	0
	3.5-4	109	0
	7.5-8	28	0

TABLE 1
SUMMARY OF PID HEADSPACE READINGS: BORINGS (ppm)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
B-24	1.5-2	5.4	0
	3.5-4	4.0	0
	5.5-6	4.0	0
	7.5-8	1.8	0
B-25	1.5-2	85	0
	5.5-6	1.3	0
	7.5-8	0.9	0
B-26	1.5-2	600	0
	2.5-3	101	0
	3.5-4	60	0
	5-6	16.8	0
	7-8	12.2	0
B-27	3.5-4	4.0	0
	6-6.5	1.3	0
	7.5-8	3.1	0
	9.5-10	0.9	0
	11.5-12	0.4	0
B-28	3.5-4	0.9	0
	6.5-7	1.3	0
	9.5-10	0.9	0
	11.5-12	1.8	0
B-29	3.5-4	8.6	0
	5.5-6	1.8	0
	7.5-8	0.4	0
B-30	3.5-4.0	1.3	0
	4-4.8	0.9	0
	7.5-8	2.2	0
	11.5-12	0.4	0
B-31	2.5-3	0.9	0
	6-6.5	2.2	0
	7.5-8	0.9	0
B-32	3.5-4	9.9	0
	6-6.5	8.1	0
	7.5-8	4.0	0
	11.5-12	0.9	0
	14.5-15	0.9	0

TABLE 1
SUMMARY OF PID HEADSPACE READINGS: BORINGS (ppm)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
B-33	1.5-2	1.9	0
	3.5-4	1.3	0
	6-6.5	0.9	0
	7.5-8	0.9	0
	9.5-10	0.9	0
	11-11.5	0.9	0
B-34	2-2.5	4.5	0
	3.5-4	2.2	0
	6-7	1.3	0
	7.5-8	1.8	0
<i>Interior Boring Program, December 2003</i>			
GP-1	1.7-3.7	7.0	0
	3.7-5.7	14.0	0
	5.7-7.7	24.0	0
	7.7-9.7	15.0	0
	12-13.7	5.0	0
GP-2	1-3	17.0	0
	3-5	22.0	0
	5-7	30.0	0
	7-9	14.0	0
	9-11	10.0	0
	11-12.7	3.0	0
GP-3	1.3-2.3	250	0
	2.3-4.0	33	0
	4.3-5.3	19.0	0
	5.3-7.3	9.0	0
	7.3-9.3	13.0	0
	9.3-12	2.0	0
GP-4	0.8-4.8	2.0	0
	4.8-8.5	2.0	0
GP-5	0.6-2.6	0.0	0
	2.6-6.6	193	0
	6-9.6	8000	0
	9.6-10.6	945	0
	10.6-12.6	4.0	0
	12.6-14.6	3.0	0

TABLE 1
SUMMARY OF PID HEADSPACE READINGS: BORINGS (ppm)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
GP-6	2.5-6.5	755	0
	6.5-7.5	2480	0
	7.5-10.5	22.0	0
	10.5-12	6	0
	12-12.5	6.0	0
GP-7	2.5-6.5	1.5	0
	6.5-10	42.2	0
	10-10.5	1.7	0
GP-8	6.5-10	77	0
	10-10.5	22	0
GP-9	8.5-12.5	0.1	0
GP-10	19.8-20	0.0	0
	20-24	0.0	0

Notes:

1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Thermo Env Model 580B equipped with an 11.7 eV lamp.

TABLE 1a
SUMMARY OF PID HEADSPACE READINGS: IRM EXCAVATION (ppm)

Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Excavation Location	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
BU-SWALL-S	6.0	350.0	1.0
BU-SEWALL-S	5.4	560.0	1.0
BU-SEBOTT-S	6.5	600.0	1.0
BU-SWWALL-S	5.3	460.0	1.0
BU-WWALL-S	4.3	500.0	1.0
BU-NWWALL-BOTT-S	6.5	5.5	1.0
BU-NWWALL-SHAL-S	4.6	5.1	1.0
BU-PIER-NSHAL-S	2.8	79.4	1.0
BU-PIER-NMID-S	5.0	42.8	1.0
BU-NWALL-S	5.0	4.7	1.0
BU-EXCDUP-S	5.0	3.4	1.0
BU-NEWALL-S	5.4	21.7	1.0
BU-WWALL2-S	3.6	37.0	1.0
BU-WBOTT-S	6.8	6.8	1.0
BU-RW1-BOTT-S	6.0	3.9	1.0

Notes:

1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with ThermoEnvironmental meter equipped with 11.8 eV lamp.

TABLE 2
SOIL SAMPLE SUMMARY

Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Sample ID	Location	Date	Depth (ft. bgs)	Parameters
BU-MW13-S	MW-13	5/20/2002	6 - 8 8 - 10 10 - 12	95-1 TCL VOCs, TAL Metals 95-2 TCL SVOCs 95-3 Pest/PCBs
BU-MW7-S	MW-7	5/21/2002	16 - 18 14 - 16	95-1 TCL VOCs 95-2 TCL SVOCs, TAL Metals
BU-MW8-S-MS/MSD	MW-8	5/21/2002	16 - 18 18 - 20	95-1 TCL VOCs, 95-3 Pest/PCBs 95-2 TCL SVOCs, TAL Metals
BU-MW12-S	MW-12	5/22/2002	12 - 14	95-1 TCL VOCs, 95-2 TCL SVOCs, TAL Metals
BU-XX-S-DU	MW-12	5/22/2002	12 - 14	95-1 TCL VOCs, 95-2 TCL SVOCs, TAL Metals
BU-XX-S-RB	MW-12	5/22/2002	--- ---	95-1 TCL VOCs, 95-2 TCL SVOCs, 95-3 Pest/PCBs, TAL Metals
BU-MW2D-S	MW-2D	8/5/2002	8 - 10	95-1 TCL VOCs, 95-2 TCL SVOCs
BU-MW10-S	MW-10	8/5/2002	8 - 10 2 - 4	95-1 TCL VOCs 95-2 TCL SVOCs, 95-3 PCBs, TAL Metals
BU-MW9-S	MW-9	8/6/2002	4 - 6	95-1 TCL VOCs, 95-2 TCL SVOCs
BU-MW11-S	MW-11	8/7/2002	10 - 12	95-1 TCL VOCs, 95-2 TCL SVOCs
BU-MW6-S	MW-6	8/8/2002	15 - 15.9	95-1 TCL VOCs, 95-2 TCL SVOCs
BU-B11-S	B-11	8/8/2002	7.5 - 8	95-1 TCL VOCs, 95-2 TCL SVOCs
BU-B12-S	B-12	8/8/2002	4 - 5.3	95-1 TCL VOCs, 95-2 TCL SVOCs
BU-B13-S	B-13	8/8/2002	3 - 3.8	95-1 TCL VOCs, 95-2 TCL SVOCs
BU-B14-S	B-14	8/8/2002	3.5 - 4	95-1 TCL VOCs, 95-2 TCL SVOCs 95-3 PCBs, TAL Metals
BU-B18-S	B-18	8/8/2002	4.5 - 5	95-1 TCL VOCs 95-2 TCL SVOCs 95-3 PCBs, TAL Metals
BU-B15-S	B-15	8/9/2002	4.5 - 5	95-1 TCL VOCs, TAL Metals 95-2 TCL SVOCs 95-3 PCBs
BU-B16-S-MS/MSD	B-16	8/9/2002	6 - 6.5	95-1 TCL VOCs, TAL Metals 95-2 TCL SVOCs 95-3 PCBs

TABLE 2
SOIL SAMPLE SUMMARY
Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Sample ID	Location	Date	Depth (ft. bgs)	Parameters
BU-B17-S	B-17	8/9/2002	4.5 - 5	95-1 TCL VOCs, 95-2 TCL SVOCs 95-3 PCBs, TAL Metals
BU-B8-S	B-8	8/12/2002	1.8 - 2.5	95-1 TCL VOCs, 95-2 TCL SVOCs
BU-B9-S	B-9	8/12/2002	5 - 6.5	95-1 TCL VOCs, 95-2 TCL SVOCs
BU-B10-S	B-10	8/12/2002	3 - 3.7	95-1 TCL VOCs, 95-2 TCL SVOCs 95-3 PCBs, TAL Metals
BU-MW14-S-MS/MSD	MW-14	2/26/2003	15.2-16	95-1 TCL VOCs
BU-MW15-S	MW-15	2/26/2003	11.5-12	95-1 TCL VOCs
BU-S-DUP	S-DUP	2/26/2003	11.5-12	95-1 TCL VOCs
BU-B19-S	B-19	5/5/2003	3.5-4	95-1 TCL VOCs
BU-B20-S	B-20	5/5/2003	3.5-4	TPH by NYSDOH 310.13
BU-B21-S	B-21	5/3/2003	4.5-5	95-1 TCL VOCs
BU-B22-S	B-22	5/5/2003	5.5-6	95-1 TCL VOCs
BU-B23-S	B-23	5/3/2003	1-2	95-1 TCL VOCs
BU-B24-S	B-24	5/3/2003	5.5-6	95-1 TCL VOCs
BU-B25-S	B-25	5/3/2003	5.5-6	95-1 TCL VOCs
BU-B26-S	B-26	5/3/2003	2.5-3	95-1 TCL VOCs
BU-B27-S	B-27	5/3/2003	3.5-4	TPH by NYSDOH 310.13
BU-B28-S	B-28	5/3/2003	6.5-7	95-1 TCL VOCs
BU-29-S	B-29	5/3/2003	3.5-4	95-1 TCL VOCs
BU-B30-S	B-30	5/3/2003	3.5-4	95-1 TCL VOCs
BU-B31-S-MS/MSD	B-31	5/5/2003	6-6.5	95-1 TCL VOCs
BU-B32-S	B-32	5/5/2003	3.5-4	95-1 TCL VOCs, TPH by NYSDOH 310.13
BU-DUP-S	B-32	5/5/2003		95-1 TCL VOCs, TPH by NYSDOH 310.13
BU-B33-S	B-33	5/5/2003	6-6.5	95-1 TCL VOCs
BU-B34-S	B-34	5/5/2003	2-2.5	95-1 TCL VOCs

TABLE 2
SOIL SAMPLE SUMMARY
Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Sample ID	Location	Date	Depth (ft. bgs)	Parameters
BU-GP2-S2TOP-S	GP-2	12/24/2003	5-7.0	TCL VOCs by EPA Method 8260 + TICs
BU-GP3-S1TOP-S	GP-3	12/24/2003	1.3-2.3	TCL VOCs by EPA Method 8260 + TICs
BU-GP3-S1MID-S	GP-3	12/24/2003	2.3-4.0	TCL VOCs by EPA Method 8260 + TICs
BU-GP3-S1BOTT-S	GP-3	12/24/2003	4-5.3	TCL VOCs by EPA Method 8260 + TICs
BU-GP3-S2BOTT-S	GP-3	12/24/2003	8-9.3	TCL VOCs by EPA Method 8260 + TICs
BU-GP1-S3BOTT-S	GP-1	12/24/2003	12-13.7	TCL VOCs by EPA Method 8260 + TICs
BU-GP-5, 9-9.5'-S	GP-5	12/31/2003	9-9.5	95-1 TCL VOCs + TICs
BU-GP-5, 12-12.6'-S	GP-5	12/31/2003	12-12.6	95-1 TCL VOCs + TICs
BU-GP-6, 10-10.5'-S	GP-6	12/31/2003	10-10.5	95-1 TCL VOCs + TICs
BU-GP-8, 7.5-8'-S	GP-8	12/31/2003	7.5-8	95-1 TCL VOCs + TICs
BU-GP-10, 19.8-20'-S	GP-10	12/31/2003	19.8-20	95-1 TCL VOCs + TICs
BU-SWALL-S	South Sidewall	12/23/2003	6.0	95-1 TCL VOCs + TICs
BU-SEWALL-S	Southeast Sidewall	12/23/2003	5.4	95-1 TCL VOCs + TICs
BU-SEBOTT-S	Southeast Bottom	12/23/2003	6.5	95-1 TCL VOCs + TICs
BU-SWWALL-S	Southwest Sidewall	12/24/2003	5.3	95-1 TCL VOCs + TICs
BU-WWALL-S	West Sidewall	12/24/2003	4.3	95-1 TCL VOCs + TICs
BU-MS/MSD-S	West Sidewall	12/24/2003	4.3	95-1 TCL VOCs + TICs
BU-NWWALL-BOTT-S	Northwest Bottom	12/26/2003	6.5	95-1 TCL VOCs + TICs
BU-NWWALL-SHAL-S	Northwest Sidewall	12/26/2003	4.6	95-1 TCL VOCs + TICs
BU-PIER-NSHAL-S	Center Pier Sidewall	12/26/2003	2.8	95-1 TCL VOCs + TICs
BU-PIER-NMID-S	Center Pier Sidewall	12/26/2003	5.0	95-1 TCL VOCs + TICs

TABLE 2
SOIL SAMPLE SUMMARY
Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Sample ID	Location	Date	Depth (ft. bgs)	Parameters
BU-NWALL-S	North Sidewall	12/26/2003	5.0	95-1 TCL VOCs + TICs
BU-NEWALL-S	Northeast Sidewall	12/26/2003	5.4	95-1 TCL VOCs + TICs
BU-EXCDUP-S	North Sidewall	12/26/2003	5.0	95-1 TCL VOCs + TICs
BU-WWALL2-S	West Sidewall (Addn'l Area)	12/29/2003	3.6	95-1 TCL VOCs + TICs
BU-WBOTT-S	West Bottom (Addn'l Area)	12/29/2003	6.8	95-1 TCL VOCs + TICs
BU-RW1-BOTT-S	RW1 Bottom	12/30/2003	6.0	95-1 TCL VOCs + TICs

Notes:

1. ft. bgs = feet below ground surface.
2. MS/MSD = matrix spike/matrix spike duplicate.
3. DU = blind field duplicate.
4. RB = rinse blank.

TABLE 3
WELL COMPLETION SUMMARY

Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Well	Completion Date	Reference Elevation	Bentonite Seal (ft. bgs)	Sandpack Interval (ft. bgs)	Screened Interval (ft. bgs)	Lower Bentonite Seal (ft. bgs)	Total Borehole Depth (ft. bgs)
MW-2D	8/8/02	561.56	20.8 - 31.3	31.3 - 42.3	32.3 - 42.3	-----	42.3
MW-6	8/8/02	559.78	2.0-4.0	4.0-19.0	5.0-19.0	-----	19.0
MW-7	5/20/02	560.83	2.0-4.0	4.0-20.0	5.0-20.0	-----	20.0
MW-8	5/21/02	561.48	2.0-4.0	4.0-19.5	5.0-19.0	19.5 - 24.0	24.0
MW-9	8/6/02	560.36	2.0-4.0	4.0-16.0	5.0 - 15.0	-----	16.0
MW-10	8/5/02	562.37	2.0-4.0	4.0-20.0	5.0-20.0	-----	20.0
MW-11	8/7/02	559.05	2.0-4.0	4.0-20.0	5.0-20.0	-----	20.0
MW-12	5/21/02	562.30	2.0-4.0	4.0-20.0	5.0-20.0	-----	20.0
MW-13	5/22/02	563.42	2.0-4.0	4.0-21.0	5.2-20.2	21.0 - 34.0	34.0
MW-14	2/25/03		1.5 - 3.0	3.0 - 13.0	4.0 - 13.0	13.0 - 16.0	16.0
MW-15	2/25/03		1.5 - 3.0	3.0 - 10.0	4.0 - 10.0	10.0 - 12.0	12.0
RW-1	12/30/03		0.5-1.5	1.5-6.0	2.0-6.0	-----	6.0
RW-2	12/30/03		0.5-1.0	1.0-6.5	1.5-6.5	-----	6.5

Notes:

1. Reference elevation based upon vertical datum NGVD 29.
2. ft. bgs = feet below ground surface.
3. All wells completed with flush-mount protective casings.

TABLE 4
WATER LEVEL SUMMARY

Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Monitoring Well	Ground Elevation	Reference Elevation ⁽¹⁾	May 31, 2002		June 27, 2002		August 20, 2002		March 31, 2003	
			Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)
MW-1	563.9	562.70	3.32	559.38	3.86	558.84	5.79	556.91	3.08	559.62
MW-2	561.9	561.71	2.17	559.54	3.59	558.12	6.31	555.40	2.26	559.45
MW-2 D	562.0	561.56	---	---	---	---	dry	---	dry	---
MW-5	562.1	561.76	1.69	560.07	2.58	559.18	4.77	556.99	1.81	559.95
MW-6	560.3	559.78	---	---	---	---	15.40	544.38	10.30	549.48
MW-7	561.4	560.83	2.08	558.75	3.24	557.59	5.88	554.95	2.21	558.62
MW-8	562.0	561.48	6.88	554.60	7.21	554.27	11.05	550.43	3.24	558.24
MW-9	561.1	560.36	---	---	---	---	5.26	555.10	0.96	559.40
MW-10	562.8	562.37	---	---	---	---	2.98	559.39	1.55 *	560.82
MW-11	559.3	559.05	---	---	---	---	15.99	543.06	10.21	548.84
MW-12	562.8	562.30	1.60	560.70	2.28	560.02	4.11	558.19	1.50	560.80
MW-13	563.9	563.42	3.30	560.12	4.05	559.37	5.91	557.51	4.02	559.40
MW-14	561.3	560.90	---	---	---	---	---	---	1.16	559.74
MW-15	560.5	560.10	---	---	---	---	---	---	2.97	557.13

Notes:

1. Reference elevation based upon vertical datum NGVD 29.
2. ft. btoc = feet below top of casing.
3. * = oily floating product at 0.97 ft. btoc.

TABLE 5
WELL PURGING SUMMARY
FOR VOCs, SVOCs AND PESTs/PCBs
Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Well	Date	Time	Volume Purged (gal)	pH (SU)	Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-1	09/11/02	13:28	2.4	7.24	1404	17.2	>200
		13:32	3.6	-dry after 1.5 volumes			
	09/12/02	9:25	0.3	6.92	1430	16.0	>200
MW-2	09/10/02	11:38	1.4	7.19	1372	19.4	>200
		11:44	2.8	6.95	1445	18.3	>200
		11:49	4.2	6.96	1428	18.2	>200
MW-2	09/10/02	12:25	dry - mud on interface probe has no odor.				
MW-5	09/10/02	12:53	2.0	6.93	1856	19.2	>200
		13:00	4.0	6.92	1803	18.1	>200
		13:08	6.0	6.90	1824	18.6	>200
MW-6	09/11/02	10:47	0.1	7.36	1038	23.0	>200
		10:51	0.3	7.14	1030	22.4	>200
		10:55	0.5	7.07	1033	22.2	>200
		10:59	0.7	7.17	1034	22.2	>200
MW-7	09/11/02	11:22	2.0	6.85	1153	19.9	152
		11:29	4.0	6.80	1256	18.8	>200
		11:34	6.0	6.73	1238	18.9	192
MW-8	09/10/02	14:02	1.2	7.99	542	20.2	>200
		14:13	2.4	8.10	544	19.6	98.0
		14:20	3.6	8.14	554	19.7	148.0

Notes:

1. ft btoc = feet below top of casing.
2. SU = standard units.
3. umhos/cm = micromhos per centimeter.
4. (°C) = degrees Celcius.
5. NTU = Nephelometric Turbidity Units.

TABLE 5
WELL PURGING SUMMARY
FOR VOCs, SVOCs AND PESTs/PCBs

Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Well	Date	Time	Volume Purged (gal)	pH (SU)	Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-9	09/11/02	13:50	1.3	6.70	1105	21.3	>200
		13:54	2.6	6.78	1150	20.3	>200
		14:00	3.9	6.65	1155	19.8	>200
MW-10	09/11/02	14:28	2.5	6.56	1430	19.3	120.0
		14:37	5	6.52	1418	17.0	144.0
		14:44	7.5	6.44	1422	16.8	>200
MW-11	09/11/02	10:16	0.1	6.77	1554	20.1	>200
-dry after 1 volume; no recovery on 9/12/02.							
MW-12	09/11/02	11:58	2.3	6.67	1044	21.1	82.0
		12:05	4.6	6.75	1032	20.8	>200
		12:14	6.9	6.76	1038	20.4	>200
MW-13	09/10/02	10:34	2.1	6.69	1951	19.1	>200
		10:41	4.2	6.74	1945	17.8	>200
		10:47	6.3	6.83	1959	16.0	>200

Notes:

1. ft btoc = feet below top of casing.
2. SU = standard units.
3. umhos/cm = micromhos per centimeter.
4. (°C) = degrees Celcius.
5. NTU = Nephelometric Turbidity Units.

TABLE 6
WELL PURGING SUMMARY
FOR INORGANICS

Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Well	Date	Time	Purge Rate (mL/min)	Water Level (ft btoc)	pH (SU)	Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-2 (static w/L = 7.25)	09/12/02	11:02	126	7.41	6.96	1351	19.2	13.1
		11:07	126	7.41	6.85	1313	19.2	12.3
		11:12	141	7.42	6.84	1310	19.5	10.5
MW-5 (static w/L = 5.91)	09/12/02	12:12	141	6.68	6.75	1788	19.7	34.1
		12:17	150	6.86	6.70	1792	19.7	40.5
		12:22	141	6.88	6.65	1776	19.9	21.7
MW-8 (static w/L = 11.39)	09/12/02	13:13	114	11.63	8.09	584	20.7	6.7
		13:18	120	11.83	8.07	554	20.7	3.2
		13:23	120	11.93	8.05	543	21.2	2.8
MW-13 (static w/L = 6.76)	09/12/02	9:59	120	7.16	6.85	1865	16.8	15.3
		10:04	126	7.31	6.80	1871	16.8	15.9
		10:09	104	7.40	6.74	1869	16.7	16.0

Notes:

1. ft btoc = feet below top of casing.
2. SU = standard units.
3. umhos/cm = micromhos per centimeter.
4. (°C) = degrees Celcius.
5. NTU = Nephelometric Turbidity Units.
6. mL/min = milliliters per minute.

TABLE 7
GROUNDWATER SAMPLE SUMMARY

Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Sample ID	Location	Date	Method	Parameters
BU-B11-GW-MS/MSD	B-11	8/7/2002	disposable bailer	95-1 VOCs
BU-B13-GW	B-13	8/7/2002	disposable bailer	95-1 VOCs
BU-B14-GW	B-14	8/7/2002	disposable bailer	95-1 VOCs
BU-B18-GW	B-18	8/8/2002	disposable bailer	95-1 VOCs
Trip Blanks	-	8/8/2002	-	95-1 VOCs
BU-B15-GW	B-15	8/9/2002	disposable bailer	95-1 VOCs
BU-B16-GW	B-16	8/9/2002	disposable bailer	95-1 VOCs
BU-B16-W-RB	B-16	8/9/2002	disposable bailer	95-1 VOCs
BU-B17-GW	B-17	8/9/2002	disposable bailer	95-1 VOCs
Trip Blanks	-	8/9/2002	-	95-1 VOCs
BU-MW2-GW	MW-2	9/10/2002	disposable bailer	95-1 VOCs 95-2 SVOCs, 95-3 Pest/PCBs
BU-XX-GW-DU	MW-2	9/10/2002	disposable bailer	95-1 VOCs 95-2 SVOCs, 95-3 Pest/PCBs
BU-MW5-GW	MW-5	9/10/2002	disposable bailer	95-1 VOCs 95-2 SVOCs, 95-3 Pest/PCBs
BU-MW8-GW	MW-8	9/10/2002	disposable bailer	95-1 VOCs 95-2 SVOCs, 95-3 Pest/PCBs
BU-MW13-GW-MS/MSD	MW-13	9/10/2002	disposable bailer	95-1 VOCs 95-2 SVOCs, 95-3 Pest/PCBs
Trip Blanks	-	9/10/2002	-	95-1 VOCs
BU-MW6-GW	MW-6	9/11/2002	disposable bailer	95-1 VOCs 95-2 SVOCs
BU-MW7-GW	MW-7	9/11/2002	disposable bailer	95-1 VOCs 95-2 SVOCs
BU-MW9-GW	MW-9	9/11/2002	disposable bailer	95-1 VOCs 95-2 SVOCs

TABLE 7
GROUNDWATER SAMPLE SUMMARY

Brownfields Cleanup Program
381 Buell Road
Rochester, NY

Sample ID	Location	Date	Method	Parameters
BU-MW10-GW	MW-10	9/11/2002	disposable bailer	95-1 VOCs 95-2 SVOCs
BU-MW12-GW	MW-12	9/11/2002	disposable bailer	95-1 VOCs 95-2 SVOCs
BU-MW1-GW	MW-1	9/12/2002	disposable bailer	95-1 VOCs 95-2 SVOCs
BU-MW2-GW	MW-2	9/12/2002	peristaltic pump	Inorganics
BU-DUP-GW	MW-2	9/12/2002	peristaltic pump	Inorganics
BU-MW5-GW	MW-5	9/12/2002	peristaltic pump	Inorganics
BU-MW8-GW	MW-8	9/12/2002	peristaltic pump	Inorganics
BU-MW13-GW-MS/MSD	MW-13	9/12/2002	peristaltic pump	Inorganics
Trip Blanks	-	9/12/2002	-	95-1 VOCs
BU-MW15-GW	MW-15	2/26/2003	disposable bailer	95-1 VOCs
BU-MW14-GW	MW-14	2/26/2003	disposable bailer	95-1 VOCs
BU-S-DUP	MW-15	2/26/2003	disposable bailer	95-1 VOCs
BU-B19-W	B-19	5/5/2003	disposable bailer	95-1 VOCs
Trip Blanks	-	5/5/2003	disposable bailer	95-1 VOCs
BU-B27-W-MS/MSD	B-27	5/3/2003	disposable bailer	95-1 VOCs
BU-DUP-W	B-19	5/3/2003	disposable bailer	95-1 VOCs
BU-RW1-W	RW-1	1/13/2004	disposable bailer	95-1 + TICs
BU-RW2-W	RW-2	1/13/2004	disposable bailer	95-1 + TICs

TABLE 8
SUMMARY OF HYDRAULIC CONDUCTIVITY VALUES (cm/sec)
Brownfields Cleanup Program
381 Buell Road
Rochester, NY

MONITORING WELLS	RISING HEAD TEST	FALLING HEAD TEST
MW-2	5.70E-04	5.20E-04
MW-6	5.34E-04	3.56E-04
MW-7	1.13E-04	2.31E-04
MW-8	5.10E-04	7.20E-04
MW-9	5.50E-04	1.80E-04

Notes:

1. cm/s = centimeter per second.

TABLE 9a																										
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL: GEOPROBE BORINGS (ug/kg)																										
Brownfields Cleanup Program																										
381 Buell Road																										
Rochester, New York																										
Sample ID Sample Depth (ft. bgs)	SAMPLE LOCATIONS (July 11, 2003)																								Rec. Soil Cleanup Obj. (1)	
	BU-B8-S 1.8 - 2.5	BU-B9-S 5.0 - 6.5	BU-B10-S 3.0 - 3.7	BU-B11-S 7.5 - 8.0	BU-B12-S 4.0 - 5.3	BU-B13-S 3.0 - 3.8	BU-B14-S 3.5 - 4.0	BU-B15-S 4.5 - 5.0	BU-B16-S 6.0 - 6.5	BU-B17-S 4.5 - 5.0	BU-B18-S 4.5 - 5.0	BU-B19-S 3.5 - 4.0	BU-B21-S 4.5 - 5.0	BU-B22-S 5.5 - 6.0	BU-B23-S 1.0 - 2.0	BU-B24-S 5.5 - 6.0	BU-B25-S 5.5 - 6.0	BU-B26-S 2.5 - 3.0	BU-B28-S 6.5 - 7.0	BU-B29-S 3.5 - 4.0	BU-B30-S 3.5 - 4.0	BU-B31-S 6.0 - 6.5	BU-B32-S 3.5 - 4.0	BU-B33-S 6.0 - 6.5		BU-B34-S 2.0 - 2.5
Analyte																										
Acetone	270,000 U	1,500 U	1,500 U	58 J	28	57 J	12 U	1,600 U	12 J	64	1,600 U	1,600 U	59	65 U	1,500 U	12 U	21	1,400 U	57	1,600 U	85 J	42	1,600 U	16	1,600 U	200
Benzene	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	60
Bromodichloromethane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
Bromoform	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
Bromomethane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
2-Butanone	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
Carbon Disulfide	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	300
Carbon Tetrachloride	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	2,700
Chlorobenzene	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	600
Chloroethane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	1,700
Chloroform	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	1,900
Chloromethane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	300
Dibromochloromethane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
1,1-Dichloroethane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
1,2-Dichloroethane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	200
1,1-Dichloroethene	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	100
trans-1,2-Dichloroethene	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	400
cis-1,2-Dichloroethene	26,000 J	1,200 J	1,500 U	480	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600	230	65 U	84,000 D	360 D	2 J	2,000	29 J	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	300
1,2-Dichloropropane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
trans-1,3-Dichloropropene	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
cis-1,3-Dichloropropene	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
Ethylbenzene	270,000 U	210 J	1,500 U	520	11 U	60 U	12 U	380 J	6 J	27 J	1,600 U	480 J	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
2-Hexanone	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	61	740 J	13 J	12 U	500 J	12 U	890 J	5,500
Methylene Chloride	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
4-Methyl-2-Pentanone	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	100
Styrene	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	1,000
1,1,2,2-Tetrachloroethane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
Tetrachloroethene	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	600
Toluene	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	20 J	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	1,400
1,1,1-Trichloroethane	150,000 J	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	29 J	1,600 U	6 J	12 U	1,600 U	12 U	1,600 U	1,500
1,1,2-Trichloroethane	270,000 U	1,500 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	62,000 D	12 J	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	800
Trichloroethene	14,000,000 D	1,500 U	1,500 U	38 J	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,900	25 U	65 U	820,000 D	84 D	3 J	18,000	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	10,000 *
Vinyl Chloride	270,000 U	1,500 U	1,500 U	140	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	200
o-Xylene	270,000 U	170 J	1,500 U	100	11 U	28 J	12 U	1,600 U	5 J	100	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	12 U	1,600 U	1,200
m/p-Xylenes	270,000 U	270 J	620 J	580	11 U	60 U	12 U	1,600 U	13 U	61 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U	1,400 U	130	1,600 U	47	12 U	1,600 U	12 U	1,600 U	1,200
Total VOC TICs	3,820,000	198,700	114,600	128,700	87	12,530	13	178,900	5,530	12,150	172,500	340,000	6,000	4,490	12,500	0	0	7,630	22,500	490,000	7,270	743	412,000	30	363,000	10,000 *
PID Readings (ppm)	3,400	223	163	42	48	15	0	75	3.0	18	104	20.4	2.7	1.3	160	4.0	16.8		1.3	0.9	1.3	2.2	9.9			

- Notes:
1. NYSDEC, January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of

TABLE 9a
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL: GEOPROBE BORINGS (ug/kg)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Sample ID Sample Depth (ft. bgs)	SAMPLE LOCATIONS (December 24, 2003)						SAMPLE LOCATIONS (December 31, 2003)						Rec. Soil Cleanup Obi. ⁽¹⁾
	BU-GP1-S3BOTT-S 12.0 - 13.7	BU-GP2-S2TOP-S 5.0 - 7.0	BU-GP3-S1TOP-S 1.3 - 2.3	BU-GP3-S1MID-S 2.3 - 4.0	BU-GP3-S1BOTT-S 4.0 - 5.3	BU-GP3-S2BOTT-S 8.0 - 9.3	BU-GP-5-S 9.0 - 9.5	BU-GP-5-S 12.0 - 12.6	D323 08 GP5 (14-14.5)	BU-GP-6-S 10.0 - 10.5	BU-GP-8-S 7.5 - 8.0	BU-GP-10-S 19.8 - 20.0	
Analyte									DEC Sample				
Acetone	6.3 J	120 U	14,000 U	2,900 U	38	29 J	28,000 U	6 J	6 J	5 J	1,500 U	12	200
Benzene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	60
Bromodichloromethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
Bromoform	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
Bromomethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
2-Butanone	1.2 J	13 J	6,800 U	1,500 U	3.8 J	58 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	300
Carbon Disulfide	12 U	59 U	6,800 U	1,500 U	13 U	58 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	2,700
Carbon Tetrachloride	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	600
Chlorobenzene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	1,700
Chloroethane	5.9 U	11 J N	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	1,900
Chloroform	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	300
Chloromethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
Dibromochloromethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
1,1-Dichloroethane	5.9 U	30 U	880 J	730 U	6.8	6.5 J	28,000 U	12 U	12 U	12 U	1,500 U	11 U	200
1,2-Dichloroethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	100
1,1-Dichloroethene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	400
trans-1,2-Dichloroethene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	300
cis-1,2-Dichloroethene	5.9 U	15 U	67,000	4,400	26	29 U	28,000 U	9 J	12 U	7 J	1,600	19	10,000 *
1,2-Dichloropropane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
trans-1,3-Dichloropropene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
cis-1,3-Dichloropropene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
Ethylbenzene	5.9 U	190	3,400 U	730 U	6.5 U	20 J	28,000 U	12 U	12 U	12 U	1,500 U	11 U	5,500
2-Hexanone	12 U	59 U	6,800 U	1,500 U	13 U	58 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
Methylene Chloride	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	1 J	12 U	2 J	1,500 U	2 J	100
4-Methyl-2-Pentanone	12 U	59 U	6,800 U	1,500 U	13 U	58 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	1,000
Styrene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
1,1,2,2-Tetrachloroethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	600
Tetrachloroethene	5.9 U	30 U	810 J	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	2,000	11 U	1,400
Toluene	5.9 U	30 U	3,400 U	730 U	1.4 J	29 U	28,000 U	12 U	12 U	12 U	270 J	11 U	1,500
1,1,1-Trichloroethane	5.9 U	30 U	3,500	340 J	6.5 U	29 U	3,800 J	12 U	12 U	12 U	4,100	11 U	800
1,1,2-Trichloroethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
Trichloroethene	5.9 U	20 J	120,000	8,600	21	8.0 J	350,000	32	12 U	12 J	320,000 D	20	700
Vinyl Chloride	5.9 U	30 U	3,400 U	360 J	17	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	200
o-Xylene	5.9 U	46	3,400 U	730 U	2.2 J	22 J	28,000 U	12 U	12 U	12 U	1,500 U	11 U	1,200
m/p-Xylenes	5.9 U	450	3,400 U	730 U	6.5 U	21 J	28,000 U	12 U	12 U	12 U	160 J	11 U	1,200
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	10,000 *
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	10,000 *
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	1,600
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	8,500
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	7,900
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	10,000 *
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	10,000 *
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	2,300
Methyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	10,000 *
Methyl tert-Butyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	120
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	10,000 *
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	10,000 *
1,1,2-Trichloro- 1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	6,000
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA	3,400
Total VOC TICs	0	143,200	67,100	1,540	1,678	13,320	49,000	9	0	0	58,700	0	10,000 *
PID Readings (ppm)	5.0	30	250	33	19	13	8,000	4.0		22	77	0.0	

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046) HWR 94-4046 (Revised July 2001).
2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
3. **Bold-faced** values are analytes that have been detected.
4. **Bold-faced, Underlined, and Italicized** values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.

5. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
6. "J" indicates an estimated value.
7. "U" indicates that the analyte was analyzed but not detected.
8. * = As per TAGM 4046, both individual VOCs and the sum of VOCs may not exceed 10,000 ppb.
9. bgs = below ground surface
10. "NA" indicates sample was not analyzed for listed analyte.
11. PID Readings (ppm) = Headspace measurements taken in parts per million (ppm) with a Photoionization Detector (PID).

TABLE 9b
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL: MONITORING WELL BORINGS (ug/kg)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Identifier Sample Depth (ft. bgs)	INVESTIGATION SAMPLE LOCATIONS														IRM (Dec. 30, 2003)		Rec. Soil Cleanup Obj. ⁽¹⁾
	BU-MW2D-S	BU-MW6-S	BU-MW7-S	BU-MW8-S	BU-MW9-S	BU-MW10-S	BU-MW11-S	BU-MW12-S	BU-XX-S-DU	BU-MW13-S	BU-MW14-S	BU-MW15-S	BU-S-DUP	BU-RW1-BOTT-S	D323 07		
	8.0 - 10.0	15.0 - 15.9	16.0 - 18.0	16.0 - 18.0	4.0 - 6.0	8.0 - 10.0	10.0 - 12.0	4.0 - 5.3	12.0 - 14.0	6.0 - 8.0	15.2 - 16.0	11.5 - 12.0	11.5 - 12.0	6.0	RW1-BOTT		
Analyte															DEC Sample		
Acetone	12 U	11 U	26 B	96 B	12 U	11 U	12 U	17 B	21 B	19 B	10 U	4 J	4 J	15	32	200	
Benzene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	60	
Bromodichloromethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
Bromoform	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
Bromomethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
2-Butanone	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
Carbon Disulfide	12 U	11 U	2 J	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	4 J	300	
Carbon Tetrachloride	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	2,700	
Chlorobenzene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	600	
Chloroethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,700	
Chloroform	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,900	
Chloromethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	300	
Dibromochloromethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
1,1-Dichloroethane	12 U	11 U	11 U	23 J	28	45	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
1,2-Dichloroethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	2 J	2 J	200	
1,1-Dichloroethene	12 U	11 U	11 U	24 J	12 U	5 J	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	100	
trans-1,2-Dichloroethene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	400	
cis-1,2-Dichloroethene	190	4 J	11 U	480 U	90	890 D	11 J	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	300	
1,2-Dichloropropane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	7 J	7 J	10,000 *	
trans-1,3-Dichloropropene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
cis-1,3-Dichloropropene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
Ethylbenzene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
2-Hexanone	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	5,500	
Methylene Chloride	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
4-Methyl-2-Pentanone	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	100	
Styrene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,000	
1,1,2,2-Tetrachloroethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
Tetrachloroethene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	600	
Toluene	12 U	11 U	11 U	6 J	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,400	
1,1,1-Trichloroethane	12 U	11 U	11 U	60 U	12 U	4 J	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,500	
1,1,2-Trichloroethane	12 U	11 U	11 U	60 U	12 U	19	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	800	
Trichloroethene	12 U	4 J	11 U	22,000 D	9 J	440 D	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *	
Vinyl Chloride	12 U	11 U	11 U	60 U	6 J	28	4 J	12 U	12 U	12 U	10 U	10 U	10 U	61	25	700	
o-Xylene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	5 J	13 U	200	
m/p-Xylenes	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,200	
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8 J	10,000 *	
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	10,000 *	
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	1,600	
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	8,500	
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	7,900	
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	10,000 *	
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	10,000 *	
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	2,300	
Methyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	10,000 *	
Methyl tert-Butyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	120	
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12 J	10,000 *	
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	10,000 *	
1,1,2-Trichloro- 1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	6,000	
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	3,400	
Total VOC TICs	0	11	0	0	10	71	16	0	0	0	0	0	0	1,008	1,069	10,000 *	
PID Readings (ppm)	23.3	0	0	3	1	14	0	0	0	0	0	0		3.9			

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046) HWR 94-4046 (Revised July 2001).
2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
3. **Bold-faced** values are analytes that have been detected.
4. **Bold-faced**, Underlined, and *Italicized* values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.
5. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
6. BU-XX-S-DU is a duplicate analysis of sample BU-MW-12-S.
7. BU-S-DUP is a duplicate analysis of sample BU-MW15-S.

8. "J" indicates an estimated value.
9. "U" indicates that the analyte was analyzed but not detected.
10. "B" indicates the analyte was found in the associated blank.
11. * = As per TAGM 4046, both individual VOCs and the sum of VOCs may not exceed 10,000 ppb.
12. BU-RW1-BOTT-S was collected as part of the Interim Remedial Measures excavation sampling; RW-1 was installed manually.
13. bgs = below ground surface
14. "NA" indicates sample was not analyzed for listed analyte.
15. PID Readings (ppm) = Headspace measurements taken in parts per million (ppm) with a Photoionization Detector (PID).

TABLE 10
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL: IRM EXCAVATION (ug/kg)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Identifier EPA Sample No. Sample Depth (ft. bgs)	SAMPLE LOCATIONS WALL SAMPLES														Rec. Soil Cleanup Obj. ⁽¹⁾
	BU-SWALL-S SWALLS	D323 01 South Wall	D323 01DL South Wall	BU-SEWALL-S SEWALLS	BU-SWWALL-S SWWALLS	BU-WWALL-S WWALLS	BU-NWWALL-SHAL-S NWWALL-SHALS	D323 03 N Side Seep	BU-NWALL-S NWALL-S	BU-EXCDUP-S EXCDUP-S	D323 04 N Sidewall	BU-NEWALL-S NEWALL-S	BU-WWALL2-S WWALL2-S	D323 05 W Sidewall	
	6.0	5.0-6.0	5.0-6.0	5.4	5.3	4.3	4.6	5.0	5.0	5.0	5.0	5.4	3.6	Added Area	
Analyte		DEC Sample	DEC Sample					DEC Sample			DEC Sample			DEC Sample	
Acetone	21	46 J	1,500 U	7,400 U	1,500 U	1,500 U	29	10 J	79	34	30 J	84 J	18 J	40	200
Benzene	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	3 J	25 U	26 U	27 U	66 U	62 U	23 U	12 U	60
Bromodichloromethane	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
Bromoform	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
Bromomethane	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
2-Butanone	4 J	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	4 J	66 U	8 J	23 U	6 J	300
Carbon Disulfide	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	2,700
Carbon Tetrachloride	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	600
Chlorobenzene	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	1,700
Chloroethane	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	1,900
Chloroform	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	300
Chloromethane	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
Dibromochloromethane	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
1,1-Dichloroethane	12 U	60 U	1,500 U	880 J	1,500 U	1,500 U	22 J	25 U	26 U	27 U	66 U	62 U	23 U	12 U	200
1,2-Dichloroethane	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	100
1,1-Dichloroethene	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	400
trans-1,2-Dichloroethene	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	300
cis-1,2-Dichloroethene	11 J	230	1,500 U	150,000	1,100 J	1,800	89	12 J	26 U	27 U	46 J	17 J	270	8 J	10,000 *
1,2-Dichloropropane	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
trans-1,3-Dichloropropene	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
cis-1,3-Dichloropropene	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
Ethylbenzene	12 U	65	1,500 U	940 J	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	5,500
2-Hexanone	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
Methylene Chloride	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	100
4-Methyl-2-Pentanone	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	1,000
Styrene	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
1,1,2,2-Tetrachloroethane	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	600
Tetrachloroethene	12 U	77	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	1,400
Toluene	12 U	11 J	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	1,500
1,1,1-Trichloroethane	12 U	44 J	1,500 U	6,500 J	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	800
1,1,2-Trichloroethane	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
Trichloroethene	24	2,800 E	1,700 D	110,000 J	5,300 J	13,000	26 U	78	26 U	27 U	29 J	240 J	280	24	700
Vinyl Chloride	12 U	60 U	1,500 U	3,000 J	1,500 U	1,500 U	65	25 U	26 U	27 U	66 U	62 U	23 U	12 U	200
o-Xylene	2 J	100	1,500 U	2,000 J	1,500 U	1,500 U	26 U	25 U	26 U	27 U	10 J	69 J	23 U	12 U	1,200
m/p-Xylenes	2 J	86	1,500 U	2,300 J	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	40 J	23 U	12 U	1,200
Cyclohexane	NA	60 U	1,500 U	NA	NA	NA	NA	8 J	NA	NA	66 U	NA	NA	12 U	10,000 *
1,2-Dibromo-3-chloropropane	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	1,600
1,3-Dichlorobenzene	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	8,500
1,4-Dichlorobenzene	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	7,900
1,2-Dichlorobenzene	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	10,000 *
Dichlorodifluoromethane	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	10,000 *
1,2-Dibromoethane	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	2,300
Isopropylbenzene	NA	130	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	10,000 *
Methylacetate	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	120
Methyl tert-Butyl Ether	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	10,000 *
Methylcyclohexane	NA	49 J	1,500 U	NA	NA	NA	NA	27	NA	NA	8 J	NA	NA	12 U	10,000 *
Trichlorofluoromethane	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	10,000 *
1,1,2-Trichloro- 1,2,2-Trifluoroethane	NA	60 U	1,500 U	NA	NA	NA	NA	4 J	NA	NA	66 U	NA	NA	12 U	6,000
1,2,4-Trichlorobenzene	NA	60 U	1,500 U	NA	NA	NA	NA	25 U	NA	NA	66 U	NA	NA	12 U	3,400
Total VOC TICs	5,460	80,500	154,700	623,000 D	5,410	7,640	3,460	2,206	2,361	2,301	8,150	58,300	13	7	10,000 *
PID Readings	350			560	460	500	5.1		4.7	3.4		21.7	37.0		

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046) HWR 94-4046 (Revised July 2001).
2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
3. **Bold-faced** values are analytes that have been detected.
4. **Bold-faced**, Underlined, and *Italicized* values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.
5. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
6. BU-XX-S-DU is a duplicate analysis of sample BU-MW-12-S.
7. BU-S-DUP is a duplicate analysis of sample BU-MW15-S.
8. "J" indicates an estimated value.
9. "U" indicates that the analyte was analyzed but not detected.
10. "B" indicates the analyte was found in the associated blank.
11. * = As per TAGM 4046, both individual VOCs and the sum of VOCs may not exceed 10,000 ppb.
12. "E" indicates that the analyte concentration exceeded the calibration range of the instrument for that specific analysis.

TABLE 10
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL: IRM EXCAVATION (ug/kg)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

	SAMPLE LOCATIONS								
Identifier EPA Sample No. Sample Depth (ft. bgs)	BOTTOM SAMPLES						PIER SAMPLES		Rec. Soil Cleanup Obj. ⁽¹⁾
	BU-SEBOTT-S	D323 02	D323 02DL	BU-NWWALL-BOTT-S	BU-WBOTT-S	D323 06	BU-PIER-NSHAL-S	BU-PIER-NMID-S	
	SEBOTT'S	South End	South End	WALL-BOTT	WBOTT2-S	W Side Bott	NSHAL-S	NMID-S	
	6.5	Bott of Exc	Bott of Exc	6.5	6.8	Added Area	2.8	5.0	
Analyte		DEC Sample	DEC Sample			DEC Sample			
Acetone	7,400 U	6,000 U	7,400 U	53	8 J	5 J	1,500 UJ	1,500 UJ	200
Benzene	7,400 U	6,000 U	7,400 U	3 J	25 U	12 U	1,500 UJ	1,500 UJ	60
Bromodichloromethane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Bromoform	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Bromomethane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
2-Butanone	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	300
Carbon Disulfide	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	2,700
Carbon Tetrachloride	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	600
Chlorobenzene	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	1,700
Chloroethane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	1,900
Chloroform	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	300
Chloromethane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Dibromochloromethane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
1,1-Dichloroethane	1,400 J	1,200 J	1,000 JD	10 J	25 U	12 U	1,500 UJ	1,500 UJ	200
1,2-Dichloroethane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	100
1,1-Dichloroethene	890 J	610 J	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	400
trans-1,2-Dichloroethene	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	300
cis-1,2-Dichloroethene	190,000	150,000 E	140,000 D	5 J	57	7 J	1,700	2,000	10,000 *
1,2-Dichloropropane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
trans-1,3-Dichloropropene	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
cis-1,3-Dichloropropene	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Ethylbenzene	1,900 J	1,800 J	1,500 JD	24 U	25 U	12 U	1,500 UJ	160 J	5,500
2-Hexanone	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Methylene Chloride	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	100
4-Methyl-2-Pentanone	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	1,000
Styrene	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
1,1,2,2-Tetrachloroethane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	600
Tetrachloroethene	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	540 J	1,500 UJ	1,400
Toluene	840 J	730 J	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	1,500
1,1,1-Trichloroethane	2,100 J	2,700	2,600 D	24 U	25 U	12 U	450 J	1,500 UJ	800
1,1,2-Trichloroethane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Trichloroethene	7,400 U	1,500 J	1,100 JD	9 J	100	8 J	140,000	390 J	700
Vinyl Chloride	5,100 J	6,000 U	7,400 U	11 J	25 U	12 U	1,500 UJ	1,500 UJ	200
o-Xylene	3,500 J	3,900 J	3,400 JD	24 U	25 U	12 U	1,500 UJ	380 J	1,200
m/p-Xylenes	4,000 J	4,400 J	3,700 JD	24 U	25 U	12 U	1,500 UJ	450 J	1,200
Cyclohexane	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	10,000 *
1,2-Dibromo-3-chloropropane	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	10,000 *
1,3-Dichlorobenzene	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	1,600
1,4-Dichlorobenzene	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	8,500
1,2-Dichlorobenzene	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	7,900
Dichlorodifluoromethane	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	10,000 *
1,2-Dibromoethane	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	10,000 *
Isopropylbenzene	NA	1,800 J	1,500 JD	NA	NA	12 U	NA	NA	2,300
Methylacetate	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	10,000 *
Methyl tert-Butyl Ether	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	120
Methylcyclohexane	NA	800 J	7,400 U	NA	NA	12 U	NA	NA	10,000 *
Trichlorofluoromethane	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	10,000 *
1,1,2-Trichloro- 1,2,2-Trifluoroethane	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	6,000
1,2,4-Trichlorobenzene	NA	6,000 U	7,400 U	NA	NA	12 U	NA	NA	3,400
Total VOC TICs	820,000	852,000	1,208,000	3,760	49	0	26,400	147,300	10,000 *
PID Readings	600			5.5	6.8		79.4	42.8	

- Notes:
1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046) HWR 94-4046 (Revised July 2001).
 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
 3. **Bold-faced** values are analytes that have been detected.
 4. **Bold-faced**, Underlined, and *italicized* values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.
 5. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
 6. BU-XX-S-DU is a duplicate analysis of sample BU-MW-12-S.
 7. BU-S-DUP is a duplicate analysis of sample BU-MW15-S.
 8. "J" indicates an estimated value.
 9. "U" indicates that the analyte was analyzed but not detected.
 10. "B" indicates the analyte was found in the associated blank.
 11. * = As per TAGM 4046, both individual VOCs and the sum of VOCs may not exceed 10,000 ppb.
 12. "E" indicates an estimated value.

TABLE 11
SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Parameter	SAMPLE LOCATIONS																				Rec. Soil	
	BU-MW2D-S	BU-MW6-S	BU-MW7-S	BU-MW8-S	BU-MW9-S	BU-MW10-S	BU-MW11-S	BU-MW12-S	BU-XX-S-DU	BU-MW13-S	BU-B8-S	BU-B9-S	BU-B10-S	BU-B11-S	BU-B12-S	BU-B13-S	BU-B14-S	BU-B15-S	BU-B16-S	BU-B17-S	BU-B18-S	Cleanup Obj.
ACENAPHTHENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	50,000 *
ACENAPHTHYLENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	820 J	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	41,000
ANTHRACENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	1,700 J	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	50,000 *
BENZO(A)ANTHRACENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	7,900	3,900 U	3,900 U	400 U	71 J	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	224 or MDL
BENZO(A)PYRENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	8,000	3,900 U	3,900 U	400 U	79 J	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	61 or MDL
BENZO(B)FLUORANTHENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	5,700	3,900 U	3,900 U	400 U	60 J	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	1,100
BENZO(G,H,I)PERYLENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	4,600	3,900 U	3,900 U	400 U	57 J	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	50,000 *
BENZO(K)FLUORANTHENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	6,400	3,900 U	3,900 U	400 U	63 J	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	1,100
BUTYL BENZYL PHTHALATE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	50,000 *
DI-N-BUTYLPHthalate	410 U	43 J	80 JB	81 JB	400 U	3,800 U	370 U	79 JB	78 JB	64 JB	3,600 U	3,900 U	3,900 U	400 U	39 J	400 U	51 J	2,100 U	450 U	4,100 U	2,100 U	NA
CARBAZOLE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
INDENO(1,2,3-CD)PYRENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	5,200	3,900 U	3,900 U	400 U	58 J	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	3,200
4-CHLOROANILINE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	220 or MDL
BIS(2-CHLOROETHOXY)METHANE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
BIS(2-CHLOROETHYL)ETHER	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
2-CHLORONAPHTHALENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
2-CHLOROPHENOL	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	800
2,2'-OXYBIS(1-CHLOROPROPANE)	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
CHRYSENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	7,300	3,900 U	3,900 U	400 U	89 J	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	400
DIBENZ(A,H)ANTHRACENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	2,000 J	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	14 or MDL
DIBENZOFURAN	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	6,200
1,3-DICHLOROBENZENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
1,2-DICHLOROBENZENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
1,4-DICHLOROBENZENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
3,3'-DICHLOROBENZIDINE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
2,4-DICHLOROPHENOL	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	400
DIETHYLPHthalate	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	7,100
DIMETHYL PHTHALATE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	2,000
2,4-DIMETHYLPHENOL	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
2,4-DINITROPHENOL	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	420 U	1,000 U	9,000 U	9,800 U	9,300 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	1,100 U	10,000 U	5,200 U	200 or MDL
2,4-DINITROTOLUENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
2,6-DINITROTOLUENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	1,000
BIS(2-ETHYLHEXYL)PHTHALATE	47 J	46 J	370 U	400 U	98 J	3,800 U	39 J	400 U	63 J	400 U	800 J	3,900 U	3,900 U	60 J	70 J	41 J	56 J	2,100 U	77 J	4,100 U	2,100 U	50,000 *
FLUORANTHENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	15,000	3,900 U	3,900 U	400 U	250 J	400 U	400 U	2,100 U	450 U	450 J	420 J	50,000 *
FLUORENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	500 J	510 J	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	250 J	50,000 *
HEXACHLOROBENZENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	410
HEXACHLOROBUTADIENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
HEXACHLOROCYCLOPENTADIENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
HEXACHLOROETHANE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
ISOPHORONE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
2-METHYLNAPHTHALENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	1,700 J	3,500 J	740 J	630	380 U	400 U	400 U	360 J	450 U	4,100 U	2,100 U	36,400
4,6-DINITRO-2-METHYLPHENOL	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	1,000 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	1,100 U	10,000 U	5,200 U	NA
4-CHLORO-3-METHYLPHENOL	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
2-METHYLPHENOL	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	100 or MDL
4-METHYLPHENOL	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	900
NAPHTHALENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	650 J	1,100 J	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	13,000
2-NITROANILINE	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	420 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	1,100 U	10,000 U	5,200 U	430 or MDL
3-NITROANILINE	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	1,000 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	1,100 U	10,000 U	5,200 U	500 or MDL
4-NITROANILINE	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	1,000 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	1,100 U	10,000 U	5,200 U	NA
NITROBENZENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	1,000 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	200 or MDL
2-NITROPHENOL	410 U	370 U	370 U	990 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	330 or MDL
4-NITROPHENOL	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	1,000 U	1,000 U	9,000 U	9,8										

TABLE 11
SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Parameter	SAMPLE LOCATIONS																				Rec. Soil Cleanup Obj.	
	BU-MW2D-S	BU-MW6-S	BU-MW7-S	BU-MW8-S	BU-MW9-S	BU-MW10-S	BU-MW11-S	BU-MW12-S	BU-XX-S-DU	BU-MW13-S	BU-B8-S	BU-B9-S	BU-B10-S	BU-B11-S	BU-B12-S	BU-B13-S	BU-B14-S	BU-B15-S	BU-B16-S	BU-B17-S		BU-B18-S
N-NITROSODIPHENYLAMINE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
DI-N-OCTYL PHTHALATE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	50,000 *
PENTACHLOROPHENOL	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	1,000 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	1,100 U	10,000 U	5,200 U	1,000 or MDL
PHENANTHRENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,500 J	540 J	3,900 U	170 J	180 J	400 U	400 U	2,100 U	450 U	940 J	480 J	50,000 *
PHENOL	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	940 J	480 J	50,000 *
4-BROMOPHENYL-PHENYLETHER	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	30 or MDL
4-CHLOROPHENYL-PHENYLETHER	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
N-NITROSO-DI-N-PROPYLAMINE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	410 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
PYRENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	8,200	3,900 U	3,900 U	400 U	120 J	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
1,2,4-TRICHLOROBENZENE	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	280 J	50,000 *
2,4,6-TRICHLOROPHENOL	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	450 U	4,100 U	2,100 U	NA
2,4,5-TRICHLOROPHENOL	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	1,000 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	1,100 U	10,000 U	5,200 U	NA
Total SVOC TICs	1,617	1,656	174	2,206	0	139,500	2,241	3,005	3,695	2,545	271,640	345,810	191,100	37,870	5,260	2,830	2,490	27,000	30,810	136,300	92,700	500,000 *
Notes:																						

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels,
Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046)
HWR 94-4046 (Revised July 2001).
2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
3. N/A = not available.
4. **Bolded** values are samples that have been detected.
5. **Bolded**, Underlined, and *Italicized* values are samples that have been detected and exceed the TAGM recommended soil cleanup objective.
6. BU-XX-S-DU is a duplicate analysis of sample BU-MW-12-S.
7. "J" indicates an estimated value.
8. "U" indicates that the analyte was analyzed but not detected.
9. "B" indicates the analyte was found in the associated blank.
5. * = As per TAGM 4046, individual SVOCs may not exceed 50,000 and total SVOCs may not exceed 500,000 ppb.

TABLE 12
SUMMARY OF PCBs/PESTICIDES IN SOIL

Brownfields Cleanup Program

381 Buell Road

Rochester, New York

Parameter	SAMPLE LOCATIONS											Rec. Soil Cleanup Obj. ⁽¹⁾
	BU-MW8-S	BU-MW-10-S	BU-MW13-S	BU-B10-S	BU-B13-S	BU-XX-S-DU	BU-B14-S	BU-B15-S	BU-B16-S	BU-B17-S	BU-B18-S	
AROCLOR-1016	40 U	38 U	40 U	39 U	40 U	41 U	40 U	42 U	44 U	40 U	42 U	1,000
AROCLOR-1221	80 U	76 U	80 U	77 U	80 U	83 U	80 U	85 U	89 U	81 U	84 U	1,000
AROCLOR-1232	40 U	38 U	40 U	39 U	40 U	41 U	40 U	42 U	44 U	40 U	42 U	1,000
AROCLOR-1242	40 U	38 U	40 U	39 U	40 U	41 U	40 U	42 U	44 U	40 U	42 U	1,000
AROCLOR-1248	40 U	38 U	40 U	39 U	40 U	41 U	40 U	42 U	44 U	40 U	42 U	1,000
AROCLOR-1254	40 U	38 U	40 U	39 U	40 U	41 U	40 U	42 U	44 U	40 U	42 U	1,000
AROCLOR-1260	40 U	38 U	40 U	39 U	40 U	41 U	40 U	42 U	44 U	40 U	42 U	1,000
ALDRIN	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	41
ALPHA-BHC	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	110
BETA-BHC	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	200
DELTA-BHC	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	300
GAMMA-BHC (LINDANE)	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	60
ALPHA-CHLORDANE	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	NA
GAMMA-CHLORDANE	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	540
4,4'-DDD	4.0 U	3.8 U	4.0 U	3.9 U	4.0 U	4.1 U	-	-	-	-	-	2,900
4,4'-DDE	4.0 U	3.8 U	4.0 U	3.9 U	4.0 U	4.1 U	-	-	-	-	-	2,100
4,4'-DDT	4.0 U	3.8 U	4.0 U	3.9 U	4.0 U	4.1 U	-	-	-	-	-	2,100
DIELDRIN	4.0 U	3.8 U	4.0 U	3.9 U	4.0 U	4.1 U	-	-	-	-	-	44
ENDOSULFAN I	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	900
ENDOSULFAN II	4.0 U	3.8 U	4.0 U	3.9 U	4.0 U	4.1 U	-	-	-	-	-	900
ENDOSULFAN SULFATE	4.0 U	3.8 U	4.0 U	3.9 U	4.0 U	4.1 U	-	-	-	-	-	1,000
ENDRIN	4.0 U	3.8 U	4.0 U	3.9 U	4.0 U	4.1 U	-	-	-	-	-	100
ENDRIN ALDEHYDE	4.0 U	3.8 U	4.0 U	3.9 U	4.0 U	4.1 U	-	-	-	-	-	NA
ENDRIN KETONE	4.0 U	3.8 U	4.0 U	3.9 U	4.0 U	4.1 U	-	-	-	-	-	NA
HEPTACHLOR	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	100
HEPTACHLOR EPOXIDE	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	-	-	-	-	-	200
METHOXYCHLOR	20.0 U	19.0 U	20.0 U	19.0 U	20.0 U	21.0 U	-	-	-	-	-	10,000
TOXAPHENE	200.0 U	190.0 U	200.0 U	190.0 U	200.0 U	210.0 U	-	-	-	-	-	NA

Notes:

1. NYSDEC, January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM) HWR 94-4046 (Revised July 2001).
2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
3. N/A = not available.
4. B-14, B-15, B-16, B-17 and B-18 analyzed for PCBs only.
5. "U" indicates that the analyte was analyzed but not detected.

TABLE 13
SUMMARY OF TAL METALS and CYANIDE IN SOIL
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

<i>Inorganic Analytes</i>	BU-MW7-S	BU-MW8-S	BU-MW10-S	BU-MW12-S	BU-XX-S-DU	BU-MW13-S	BU-B10-S	BU-B13-S	BU-B14-S	BU-B17-S	BU-B18-S	Eastern USA Background Range	REC. SOIL CLEANUP OBJECTIVE ⁽¹⁾
SILVER	0.97 U	1.10 U	0.20 U	1.10 U	1.10 U	1.10 U	0.22 U	0.22 U	0.22 U	0.18 U	0.23 U	NA	SB
ALUMINUM	4,410	7,050	4,240	1,820	1,980	1,970	6,930	5,310	3,670	2,930	2,960	33,000	SB
ARSENIC	1.60 B	2.10 B	2.00 B	0.66 B	0.56 U	2.80	2.40	1.00 B	2.20 B	1.20 B	1.40 B	3 - 12	7.5 or SB
BARIUM	43.10	59.80	20.60 B	9.90 B	10.60 B	57.70	48.50	21.60 B	16.60 B	16.90 B	17.80 B	15 - 600	300 or SB
BERYLLIUM	0.30 B	0.26 B	0.08 B	0.24 U	0.26 U	0.24 U	0.15 B	0.08 B	0.04 U	0.05 B	0.06 B	0 - 1.75	0.16 (heast) or SB
CALCIUM	<u>47,100</u>	<u>48,700</u>	1,240	18,800	22,200	21,700	1,450	1,490	1,390	3,300	2,270	130 - 35,000	SB
CADMIUM	0.38 U	0.42 U	0.45 B	0.41 U	0.43 U	0.41 U	0.06 U	0.43 B	0.42 B	0.30 B	0.33 B	0.1 - 1	1 or SB
COBALT	4.50 B	8.20 B	3.50 B	2.50 U	2.70 U	2.90 B	5.30 B	3.40 B	4.10 B	3.00 B	3.20 B	2.5 - 60	30 or SB
CHROMIUM	7.4	12.7	6.1	3.1	3.1	4.1	9.1	13.5	4.3	5.2	5.2	1.5 - 40	10 or SB
COPPER	10.10	9.50	6.90	3.40 B	3.90 B	6.30	8.60	10.40	7.10	4.90	6.60	1 - 50	25 or SB
IRON	10,200	13,800	8,550	4,280	4,980	5,780	15,100	8,210	7,280	6,240	7,300	2,000 - 550,000	2,000 or SB
MERCURY	0.01 U	0.01 U	0.01 B	0.01 U	0.01 U	0.01 U	0.02 B	0.01 B	0.01 U	0.01 B	0.01 U	0.001 - 0.2	0.1
POTASSIUM	797 B	1,130 B	345 B	263 B	319 B	288 B	270 B	358 B	380 B	274 B	255 B	8,500 - 43,000	SB
MAGNESIUM	<u>12,100</u>	<u>12,400</u>	1,380	4,400	<u>5,490</u>	<u>5,930</u>	1,480	1,520	1,320	1,710	1,530	100 - 5,000	SB
MANGANESE	316 N	393 N	430	183 N	207 N	622 N	237	267	197	103	97	50 - 5,000	SB
SODIUM	44.0 U	48.8 U	86.7 U	48.4 U	50.7 U	48.3 U	92.7 U	111.0 B	96.4 U	110.0 B	123.0 B	6,000 - 8,000	SB
NICKEL	10.2	14.7	5.8 B	4.0 B	5.2 B	5.1 B	8.8 B	7.7 B	6.8 B	6.1 B	7.1 B	0.5 - 25	13 or SB
LEAD	4.30	3.50	2.40	0.88	0.98	1.80	4.00	2.20	2.30	2.00	2.50	200 - 500	SB
ANTIMONY	1.80 UN	2.00 UN	0.60 U	2.00 UN	2.10 UN	2.00 UN	0.64 U	0.65 U	0.67 U	0.53 U	0.69 U	NA	SB
SELENIUM	0.33 UW	0.36 UW	0.44 U	0.36 UW	0.37 UW	0.37 U	0.47 U	0.47 U	0.49 U	0.39 U	0.50 U	0.1 - 3.9	2 or SB
THALLIUM	0.56 UW	0.61 UW	0.32 U	0.61 UW	0.62 UW	0.62 UW	0.34 U	0.34 U	0.35 U	0.28 U	0.36 U	NA	SB
VANADIUM	12.7	18.0	12.6	5.0 B	6.0 B	5.4 B	24.1	11.6	9.3 B	9.5	9.7 B	1 - 300	150 or SB
ZINC	26.2	34.7	18.1	13.2	12.0	14.0	20.8	17.9	28.7	14.7	17.2	9 - 50	20 or SB
TOTAL CYANIDE	1.11 U	1.20 U	1.14 U	1.21 U	1.24 U	1.21 U	1.16 U	1.20 U	1.21 U	1.22 U	1.26 U	NA	***

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM) HWR 94-4046 (Revised July 2001).
2. All data reported in milligrams per kilogram (mg/kg) which is equivalent to parts per million.
3. NA = not available.
4. **Bolded** values are samples that have been detected.
5. **Bolded**, Underlined, and *Italicized* values are samples that have been detected and exceed the recommended soil cleanup objective and/or Eastern USA background.
6. BU-XX-S-DU is a duplicate analysis of sample BU-MW12-S.
7. * indicates that soil cleanup objectives for cyanide consider site-specific forms of cyanide.
8. "B" indicates the analyte was found in the associated blank.
9. "U" indicates that the analyte was analyzed but not detected.
10. "W" indicates that post-digestion spike for Furnace AA is out of control limits.
11. "N" indicates presumptive evidence of a compound.
12. "SB" indicates site background.

TABLE 14
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (ug/L)
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

	GROUNDWATER SAMPLES - MONITORING WELLS													GROUNDWATER SAMPLES - GEOPROBE BORINGS											NYSDEC Groundwater Standards and Guidance Values ⁽¹⁾		
Parameter	BU-MW1-GW	BU-MW2-GW	BU-MW5-GW	BU-MW6-GW	BU-MW7-GW	BU-MW8-GW	BU-MW9-GW	BU-MW10-GW	BU-MW11-GW	BU-MW12-GW	BU-MW13-GW	BU-MW14-GW	BU-MW15-GW	BU-B11-GW	BU-B13-GW	BU-B14-GW	BU-B15-GW	BU-B16-GW	BU-B16-W-RB	BU-B17-GW	BU-B18-GW	BU-B19-GW	BU-B27-GW	RW-1-W		RW-2-W	
Acetone	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11	10 U	10 U	13	14	1000 U	50 (G)	
Benzene	10 U	10 U	10 U	10 U	10 U	200 U	1 J	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	4 J	10 U	10 J	2 J	10 U	10 U	10 U	1000 U	1	
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	50 (G)	
Bromoform	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	50 (G)	
Bromomethane	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
2-Butanone	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	NS	
Carbon Disulfide	10 U	10 U	10 U	10 U	44	200 U	10 U	500 U	20 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	7 J	1000 U	60 (G)	
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
Chloroethane	10 U	10 U	10 U	10 U	10 U	200 U	2 J	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
Chloroform	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
Chloromethane	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	7	
Dibromochloromethane	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	NS	
1,1-Dichloroethane	10 U	19	10 U	10 U	10 U	200 U	140	490 J	58	10 U	10 U	12	10 U	4 J	10 U	10 U	10 U	24	10 U	240 D	10 U	10 U	10 U	8 J	120 J	5	
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	6 J	10 U	10 U	10 U	10 U	1000 U	1	
1,1-Dichloroethene	10 U	4 J	10 U	10 U	3 J	200 U	2 J	500 U	20 U	10 U	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
trans-1,2-Dichloroethene	10 U	6 J	10 U	10 U	2 J	200 U	2 J	61 J	20 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	2 J	10 U	12	10 U	10 U	10 U	10 U	1000 U	5	
cis-1,2-Dichloroethene	10 U	4,200 D	10 U	10 U	170	200 U	220 D	8,300	310	10 U	10 U	100	6,1 J	280 D	38	6 J	3 J	3 J	10 U	700 D	10 U	10 U	10 U	33	15,000	5	
1,2-Dichloropropane	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	1	
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	0.4 (-cis and -trans)	
cis-1,3-Dichloropropene	10 U	10 U	10 U	21	10 U	510	10 U	500 U	20 U	6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	0.4 (-cis and -trans)	
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	5 J	5 J	4 J	10 U	10 U	1000 U	5	
2-Hexanone	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	50 (G)	
Methylene Chloride	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	NA	
Styrene	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	18	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
Toluene	10 U	1 J	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	8 J	1000 U	5	
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 U	200 U	13	500 U	15 J	10 U	10 U	2.8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	5	
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	1	
Trichloroethene	10 U	8 J	10 U	66	92	2,300	160	1,100	65	2 J	1 J	3.4 J	10 U	66 D	23	33	10 U	10 U	10 U	2 J	10 U	4 J	10 U	33 J	8,100	5	
Vinyl Chloride	10 U	470 D	10 U	10 U	25	33 J	36	2,000	29	10 U	10 U	10 U	10 U	64 D	10 U	10 U	10 U	3 J	10 U	1,300 D	10 U	10 U	10 U	14	440 J	2	
o-Xylene	10 U	2 J	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	18	10 U	10 U	10 U	10 U	1000 U	5 (total xylenes)	
m/p-Xylenes	10 U	10 U	10 U	10 U	10 U	200 U	10 U	500 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	6 J	10 U	10 U	10 U	1 J	1000 U	5 (total xylenes)	
Total VOC TICs	7	0	0	0	0	0	0	0	0	0	0	0	0	172	0	0	421	65	0	2,304	4,990	166	250	0	0	NS	
Notes:																											

- Notes:
1. NYSDEC, October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.
 2. All results are expressed in micrograms per liter (ug/L), which is equivalent to parts per billion.
 3. **Bold-faced** values are samples that have been detected.
 4. **Bold-faced**, Underlined, and *Italicized* values are samples that have been detected and exceed the Class GA groundwater standards and guidance values.
 5. "J" indicates an estimated value.
 6. (G) indicates guidance value.
 7. NA indicates the POC groundwater standard is Not Applicable.
 8. "U" indicates that the analyte was analyzed but not detected.
 9. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
 10. NS = No Standard.

TABLE 15
SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Parameter	GROUNDWATER SAMPLES											NYSDEC Groundwater Standards and Guidance Values ⁽¹⁾
	BU-MW1-GW	BU-MW2-GW	BU-XX-GW-DU	BU-MW5-GW	BU-MW6-GW	BU-MW7-GW	BU-MW8-GW	BU-MW9-GW	BU-MW10-GW	BU-MW12-GW	BU-MW13-GW	
ACENAPHTHENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	20
ACENAPHTHYLENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
ANTHRACENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
BENZO(A)ANTHRACENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	0.002
BENZO(A)PYRENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	0.002
BENZO(B)FLUORANTHENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	0.002
BENZO(G,H,I)PERYLENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
BENZO(K)FLUORANTHENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	0.002
BUTYL BENZYL PHTHALATE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
DI-N-BUTYLPHthalate	3 JB	1 JB	2 JB	3 JB	1 JB	1 JB	1 JB	2 JB	2 JB	5 JB	2 JB	NS
CARBAZOLE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
INDENO(1,2,3-CD)PYRENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	0.002
4-CHLOROANILINE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	5
BIS(-2-CHLOROETHOXY)METHANE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	5
BIS(-2-CHLOROETHYL)ETHER	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	1
2-CHLORONAPHTHALENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	10
2-CHLOROPHENOL	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	2
2,2'-OXYBIS(1-CHLOROPROPANE)	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
CHRYSENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	0.002
DIBENZ(A,H)ANTHRACENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
DIBENZOFURAN	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
1,3-DICHLOROBENZENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	3
1,2-DICHLOROBENZENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	3
1,4-DICHLOROBENZENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	3
3,3'-DICHLOROBENZIDINE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	5
2,4-DICHLOROPHENOL	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	2
DIETHYLPHthalate	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
DIMETHYL PHTHALATE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
2,4-DIMETHYLPHENOL	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	2
2,4-DINITROPHENOL	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	24 U	24 U	2
2,4-DINITROTOLUENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	5
2,6-DINITROTOLUENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	5
BIS(2-ETHYLHEXYL)PHTHALATE	1 J	10 U	9 U	2 J	12 U	10 U	10 U	9 U	9 U	9 U	9 U	5
FLUORANTHENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
FLUORENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
HEXACHLOROBENZENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	0.04
HEXACHLOROBUTADIENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	0.5
HEXACHLOROCYCLOPENTADIENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	5
HEXACHLOROETHANE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	5
ISOPHORONE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
2-METHYLNAPHTHALENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	4.7
4,6-DINITRO-2-METHYLPHENOL	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	24 U	24 U	2
4-CHLORO-3-METHYLPHENOL	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	2
2-METHYLPHENOL	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	2
4-METHYLPHENOL	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	2
NAPHTHALENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	10

TABLE 15
SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Parameter	GROUNDWATER SAMPLES											NYSDEC Groundwater Standards and Guidance Values ⁽¹⁾
	BU-MW1-GW	BU-MW2-GW	BU-XX-GW-DU	BU-MW5-GW	BU-MW6-GW	BU-MW7-GW	BU-MW8-GW	BU-MW9-GW	BU-MW10-GW	BU-MW12-GW	BU-MW13-GW	
2-NITROANILINE	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	24 U	24 U	5
3-NITROANILINE	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	24 U	24 U	5
4-NITROANILINE	6 J	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	24 U	24 U	5
NITROBENZENE	3 J	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	0.4
2-NITROPHENOL	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	2
4-NITROPHENOL	1 J	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	24 U	24 U	2
N-NITROSODIPHENYLAMINE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
DI-N-OCTYL PHTHALATE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
PENTACHLOROPHENOL	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	24 U	24 U	2
PHENANTHRENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
PHENOL	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	2 J	9 U	2
4-BROMOPHENYL-PHENYLETHER	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
4-CHLOROPHENYL-PHENYLETHER	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
N-NITROSO-DI-N-PROPYLAMINE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	NS
PYRENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	50
1,2,4-TRICHLOROBENZENE	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	5
2,4,6-TRICHLOROPHENOL	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	9 U	9 U	2
2,4,5-TRICHLOROPHENOL	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	24 U	24 U	2
Total SVOC TICs	55	120	194	41	61	99	167	289	252	93	68	NS

Notes:

1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.
2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
3. NS indicates no standard is available.
4. **Bolded** values are samples that have been detected.
5. **Bolded**, Underlined, and *Italicized* values are samples that have been detected and exceed the Class GA groundwater standards and guidance values.
6. "J" indicates an estimated value.
7. "B" indicates analyte found in the associated blank.
8. "U" indicates that the analyte was analyzed but not detected.
9. BU-XX-GW-DU is a duplicate analysis of sample MW-2.

TABLE 16
SUMMARY OF PCBs AND PESTICIDES IN GROUNDWATER

Brownfields Cleanup Program
381 Buell Road
Rochester, New York

<i>Pesticides and PCBs</i>	GROUNDWATER SAMPLES					NYSDEC Groundwater Standards and Guidance Values ⁽¹⁾
	BU-MW2-GW	BU-XX-GW-DU	BU-MW5-GW	BU-MW8-GW	BU-MW13-GW	
AROCLOR-1016	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
AROCLOR-1221	2.00 U	1.90 U	1.90 U	1.90 U	1.90 U	0.09
AROCLOR-1232	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
AROCLOR-1242	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
AROCLOR-1248	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
AROCLOR-1254	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
AROCLOR-1260	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
ALDRIN	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.002
ALPHA-BHC	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	N/A
BETA-BHC	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	N/A
DELTA-BHC	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	N/A
GAMMA-BHC (LINDANE)	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	N/A
ALPHA-CHLORDANE	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.05
GAMMA-CHLORDANE	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.05
4,4'-DDD	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.3
4,4'-DDE	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.2
4,4'-DDT	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.2
DIELDRIN	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.004
ENDOSULFAN I	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.22
ENDOSULFAN II	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.22
ENDOSULFAN SULFATE	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	N/A
ENDRIN	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.2
ENDRIN ALDEHYDE	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	5
ENDRIN KETONE	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	5
HEPTACHLOR	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.04
HEPTACHLOR EPOXIDE	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.03
METHOXYCHLOR	0.49 U	0.48 U	0.47 U	0.47 U	0.48 U	35
TOXAPHENE	4.90 U	4.80 U	4.70 U	4.70 U	4.80 U	0.06

Notes:

1. NYSDEC. October 22, 1993. Ambient Water Quality Standards Guidance Series (TOGS).
Reissued June 1998. April 2000 Addendum.
2. All results are expressed in milligrams per liter (mg/L) which is equivalent to parts per million.
3. N/A = not available.
4. **Bolded** values are samples that have been detected.
5. **Bolded**, Underlined, and *Italicized* values are samples that have been detected and exceed the Class GA groundwater standards and guidance values.
6. "U" indicates that the analyte was analyzed but not detected.
7. BU-XX-GW-DU is a duplicate analysis of sample MW-2.

TABLE 17
SUMMARY OF TAL METALS AND CYANIDE IN GROUNDWATER

Brownfields Cleanup Program
381 Buell Road
Rochester, New York

<i>TAL Metals and Cyanide</i>	GROUNDWATER SAMPLES					NYSDEC Groundwater Standards and Guidance Values ⁽¹⁾
	BU-MW2-GW	BU-DUP-GW	BU-MW5-GW	BU-MW8-GW	BU-MW13-GW	
SILVER	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	50
ALUMINUM	<u>221</u>	<u>208</u>	<u>856</u>	25 B	<u>607</u>	100
ARSENIC	3.8 B	5.7 B	1.8 U	11.3	1.8 U	50
BARIUM	226	228	42.5 B	16.0 B	39.9 B	1,000
BERYLLIUM	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	11
CALCIUM	99,600	99,800	190,000	39,500	149,000	N/A
CADMIUM	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	5
COBALT	2.7 U	2.7 U	2.8 B	2.7 U	2.7 U	5
CHROMIUM	3.1 B	2.9 B	3.8 B	0.8 B	3.9 B	50
COPPER	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	200
IRON	<u>796</u>	<u>809</u>	<u>936</u>	27 B	<u>694</u>	300
MERCURY	0.06 B	0.01 U	0.02 B	0.01 U	0.01 U	0.7
POTASSIUM	2,310 B	2,410 B	2,770 B	583 B	3,260 B	N/A
MAGNESIUM	<u>39,500</u>	<u>39,500</u>	<u>42,200</u>	8,850	<u>43,400</u>	35,000
MANGANESE	<u>880</u>	<u>863</u>	<u>1,610</u>	<u>64</u>	<u>380</u>	30
SODIUM	155,000	156,000	183,000	73,700	255,000	N/A
NICKEL	7.0 B	7.7 B	7.4 B	3.2 B	2.8 B	100
LEAD	1.1 U	1.1 U	2.6 B	1.1 U	1.1 U	50
ANTIMONY	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	3
SELENIUM	1.8 UW	1.8 UW	3.5 U	1.8 UW	3.5 UW	10
THALLIUM	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	8
VANADIUM	1.9 U	1.9 U	2.0 B	7.9 B	1.9 U	14
ZINC	8.6 B	7.0 B	11.8 B	6.9 U	6.9 U	2,000
TOTAL CYANIDE	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	N/A

Notes:

1. NYSDEC. October 22, 1993. Ambient Water Quality Standards Guidance Series (TOGS).
Reissued June 1998. April 2000 Addendum.
2. All results are expressed in milligrams per liter (mg/L) which is equivalent to parts per million.
3. N/A = not available.
4. **Bolded** values are analytes that have been detected.
5. **Bolded**, Underlined, and *Italicized* values are analytes that have been detected and exceed the Class GA groundwater standards and guidance values.
6. "U" indicates that the analyte was analyzed but not detected.
7. "W" indicates that post-digestion spike for Furnace AA is out of control limits.
8. BU-DUP-GW is a duplicate analysis of sample MW-2.
9. "B" indicates analyte found in the associated blank.

TABLE 18
WASTE CHARACTERIZATION SUMMARY

Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Roll-off ID	SLC WASTE CHARACTERIZATION SAMPLES										
	BFC 147-25	BFC 527-25	PRICE 2009	PRICE 2011	PRICE 2013	PRICE 2018	PRICE 3003	PRICE 3005	PRICE 3010	PRICE 3014	PRICE X-3
<i>VOCs in Soil</i>											
Acetone	3,700 ND	3,400 ND	16,000 ND	7,300 ND	18,000 ND	33,000 ND	3,400 ND	84,000 ND	3,700 ND	7,200 ND	3,600 ND
Benzene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Bromodichloromethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Bromoform	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Bromomethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
2-Butanone	3,700 ND	3,400 ND	16,000 ND	7,300 ND	18,000 ND	33,000 ND	3,400 ND	84,000 ND	3,700 ND	7,200 ND	3,600 ND
Carbon Disulfide	750 ND	690 ND	3,300 J	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Carbon Tetrachloride	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Chlorobenzene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Chloroethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Chloroform	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Chloromethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Cyclohexane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,2-Dibromoethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Dibromochloromethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,2-Dibromo-3-chloropropane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,2-Dichlorobenzene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,3-Dichlorobenzene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,4-Dichlorobenzene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Dichlorodifluoromethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,1-Dichloroethane	750 ND	690 ND	3,300 ND	1,500 J	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,2-Dichloroethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,1-Dichloroethene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
cis-1,2-Dichloroethene	750 ND	690 ND	6,700	2,900	4,600 J	6,600 ND	670 ND	17,000 ND	750 ND	520 J	710 ND
trans-1,2-Dichloroethene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,2-Dichloropropane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
cis-1,3-Dichloropropene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
trans-1,3-Dichloropropene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Ethylbenzene	750 ND	690 ND	3,300 ND	500 J	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
2-Hexanone	3,700 ND	3,400 ND	16,000 ND	7,300 ND	18,000 ND	33,000 ND	3,400 ND	84,000 ND	3,700 ND	7,200 ND	3,600 ND
Isopropylbenzene	750 ND	690 ND	3,300 ND	830 J	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Methyl acetate	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Methylcyclohexane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Methylene Chloride	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
4-Methyl-2-Pentanone	3,700 ND	3,400 ND	16,000 ND	7,300 ND	18,000 ND	33,000 ND	3,400 ND	84,000 ND	3,700 ND	1,400 ND	3,600 ND
Methyl tert butyl ether	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Styrene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,1,2,2-Tetrachloroethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Tetrachloroethene	750 ND	690 ND	660 J	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	320 J	710 ND
Toluene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,2,4-Trichlorobenzene	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,1,1-Trichloroethane	750 ND	690 ND	1,200 J	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,1,2-Trichloroethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
1,1,2-Trichloro-1,1,2-trifluor	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Trichlorofluoromethane	750 ND	690 ND	3,300 ND	1,500 ND	3,600 ND	6,600 ND	670 ND	17,000 ND	750 ND	1,400 ND	710 ND
Trichloroethene	750 ND	690 ND	110,000	53,000	120,000	6,600 ND	670 ND	590,000	600 J	56,000	2,100
Vinyl acetate	3,700 ND	3,400 ND	16,000 ND	1,500 ND	18,000 ND	33,000 ND	3,400 ND	84,000 ND	3,700 ND	7,200 ND	3,600 ND
Vinyl Chloride	1,500 ND	1,400 ND	6,600 ND	1,500 ND	7,300 ND	13,000 ND	1,300 ND	34,000 ND	1,500 ND	2,900 ND	1,400 ND
Total Xylenes	2,200 ND	2,100 ND	9,800 ND	2,900 J	11,000 ND	20,000 ND	2,000 ND	50,000 ND	2,200 ND	4,300 ND	2,100 ND

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046) HWR 94-4046 (Revised July 2001).
2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
3. N/A = not available.
4. **Bold-faced** values are analytes that have been detected.
5. **Bold-faced**, Underlined, and *Italicized* values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.
6. "ND" indicates analytes not detected in sample.
7. "J" indicates an estimated value.
8. * = As per TAGM 4046, individual and sum of VOCs not listed may not exceed 10,000 ppb.

TABLE 18
WASTE CHARACTERIZATION SUMMARY
Brownfields Cleanup Program
381 Buell Road
Rochester, New York

Roll-off ID	SLC WASTE CHARACTERIZATION SAMPLES														
	BFC 147-25	BFC 527-25	PRICE 2009	PRICE 2009 DL	PRICE 2011	PRICE 2013	PRICE 2013 DL	PRICE 2018	PRICE 2018 DL	PRICE 3003	PRICE 3005	PRICE 3005 DL	PRICE 3010	PRICE 3014	PRICE X-3
<i>TCLP in Soil</i>															
Benzene	0.050 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.050 ND
2-Butanone	0.25 ND	0.25 ND	0.25 ND	0.50 ND	0.25 ND	0.25 ND	0.50 ND	0.25 ND	1.2 ND	0.25 ND	0.25 ND	1.2 ND	0.25 ND	0.25 ND	0.25 ND
Carbon Tetrachloride	0.050 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.050 ND
Chlorobenzene	0.050 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.050 ND
Chloroform	0.050 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.050 ND
1,2-Dichloroethane	0.050 ND	0.050 ND	0.050 J	0.10 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.050 ND
1,1-Dichloroethene	0.050 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.050 ND
Tetrachloeoethene	0.050 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.050 ND
Trichloroethene	0.24	1.7	2.2 E	2.0 D	1.2	2.0 E	1.9 D	6.5 E	6.3 D	0.055	7.2 E	7.4 D	0.070	1.1	0.024 J
Vinyl Chloride	0.050 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.050 ND	0.10 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.25 ND	0.050 ND	0.050 ND	0.050 ND
Chlorobenzene-D5	98 ND	100 ND	99 ND	99 ND	98 ND	100 ND	98 ND	98 ND	103 ND	99 ND	100 ND	97 ND	99 ND	98 ND	101 ND
1,4-Difluorobenzene	108 ND	110 ND	109 ND	99 ND	108 ND	111 ND	98 ND	108 ND	103 ND	99 ND	110 ND	98 ND	99 ND	107 ND	100 ND
1,4-Dichlorobenzene-D4	92 ND	92 ND	91 ND	97 ND	92 ND	92 ND	97 ND	91 ND	102 ND	97 ND	93 ND	95 ND	98 ND	91 ND	99 ND
Toluene-D8	118 ND	118 ND	118 ND	118 ND	119 ND	119 ND	118 ND	118 ND	120 ND	118 ND	117 ND	120 ND	118 ND	118 ND	117 ND
p-Bromofluorobenzene	104 ND	105 ND	104 ND	106 ND	105 ND	104 ND	107 ND	104 ND	108 ND	106 ND	104 ND	108 ND	106 ND	104 ND	105 ND
1,2-Dichloroethane-D4	111 ND	110 ND	111 ND	112 ND	111 ND	110 ND	112 ND	110 ND	109 ND	110 ND	111 ND	112 ND	112 ND	112 ND	109 ND

Notes:

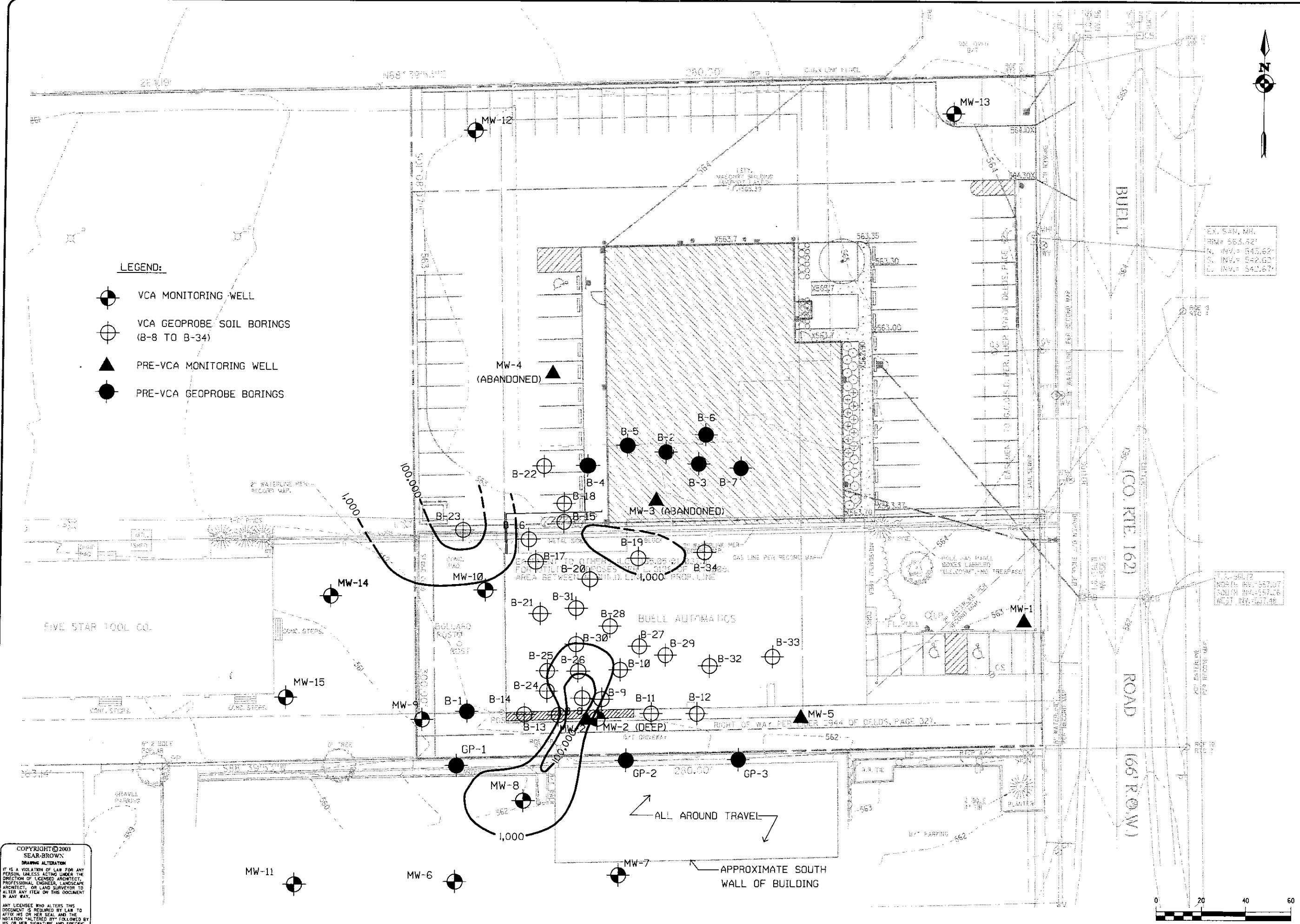
1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046) HWR 94-4046 (Revised July 2001).
2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
3. N/A = not available.
4. **Bold-faced** values are analytes that have been detected.
5. **Bold-faced**, Underlined, and *Italicized* values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.
6. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
7. "J" indicates an estimated value.
8. "E" indicates that the analyte concentration exceeded the calibration range of the instrument for that specific analysis.
9. "B" indicates the analyte was found in the associated blank.
10. * = As per TAGM 4046, individual and sum of VOCs not listed may not exceed 10,000 ppb.
11. "ND" indicates analytes not detected in sample.

Figures

Report
Discipline: geotechnical
Project: 16059
Date: 07/08/2003 10:02:27 AM
File: 16059.dwg
User: J. Stinson
Plot Config: ...\\imperial\plots\16059.dwg

LEGEND:

- VCA MONITORING WELL
- VCA GEOPROBE SOIL BORINGS (B-8 TO B-34)
- PRE-VCA MONITORING WELL
- PRE-VCA GEOPROBE BORINGS



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PROJECT NO. 16059
DRAWING NO. FIG. 1

TITLE OF DRAWING
TRICHLOROETHENE IN SOIL (ug/kg)

PROJECT
VOLUNTARY INVESTIGATION
BUJELL AUTOMATICS, INC.
381 BUELL RD
ROCHESTER, NY

SEAR-BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax (585) 272-1814
www.searbrown.com

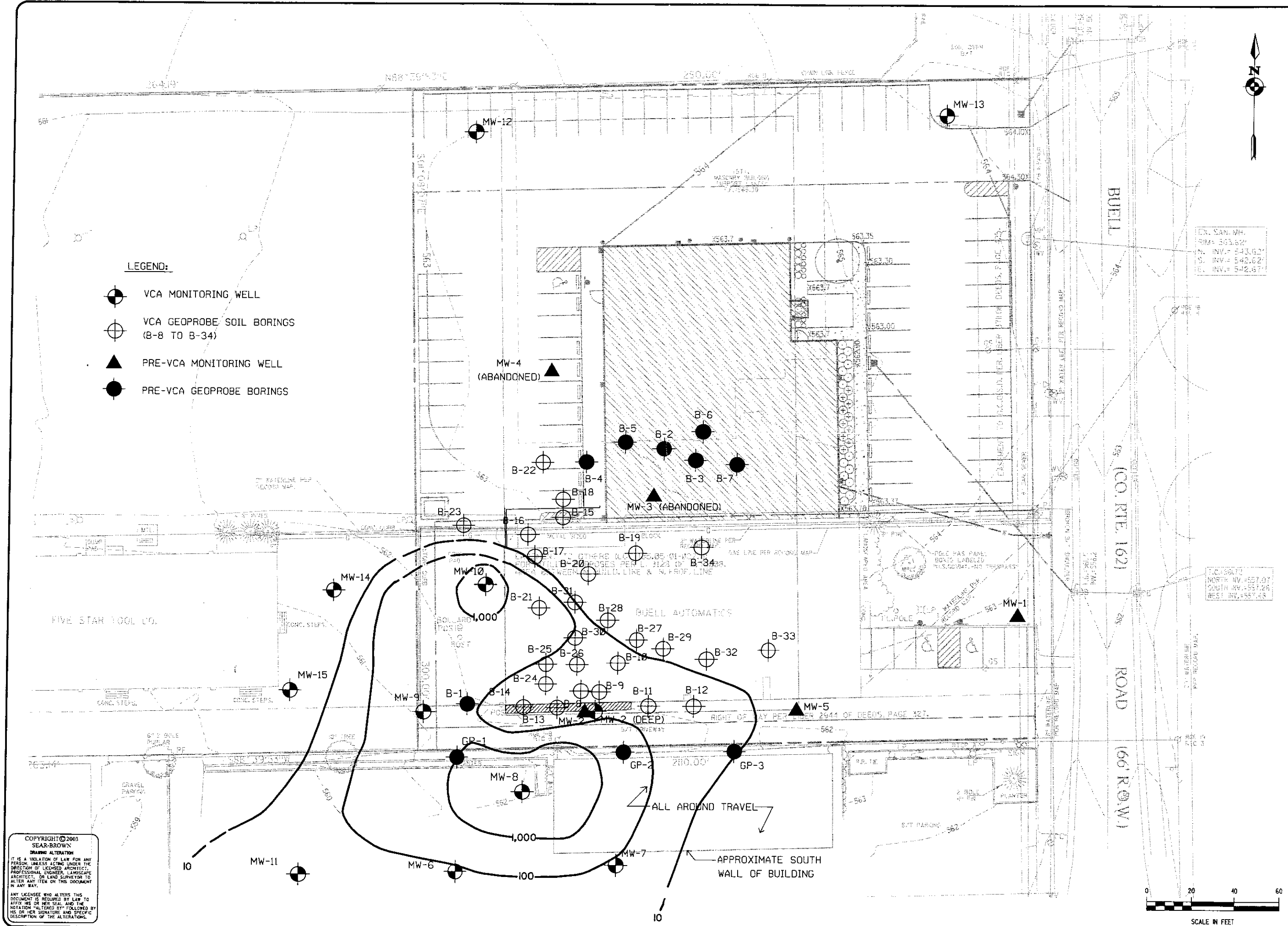
PROJECT ENGINEER/ARCHITECT
D. BELASKAS, P.E.
PROJECT MANAGER
M. STORINSKY
DRAWN BY
M. CONLEY
SCALE
1"=20'
FIRST ISSUE DATE
07/01/03

REVISIONS	DATE	BY
6		
5		
4		
3		
2		
1		
0		

Plotting Parameters
Drawing: 16059.dwg
Project: 16059
Date: 10/08/2003 02:35 AM
User: P00811
File Path: \\nlp\p00811\p00811.dwg

LEGEND:

- VCA MONITORING WELL
- VCA GEOPROBE SOIL BORINGS (B-8 TO B-34)
- PRE-VCA MONITORING WELL
- PRE-VCA GEOPROBE BORINGS



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DESCRIPTION OF THE ALTERATIONS.

PROJECT		PROJECT NO.		DRAWING NO.	
VOLUNTARY INVESTIGATION BUJELL AUTOMATICS, INC. 381 BUELL RD ROCHESTER, NY		16059		FIG. 2	

PROJECT ENGINEER/ARCHITECT		DRAWN BY		REVISIONS	
D. BELASKAS, P.E. PROJECT MANAGER M. STORONSKY		M. CONLEY SCALE 1"=20'		DATE 07/01/03	

TITLE OF DRAWING		TRICHLOROETHENE IN GROUNDWATER (ug/L)	
SEAR-BROWN			

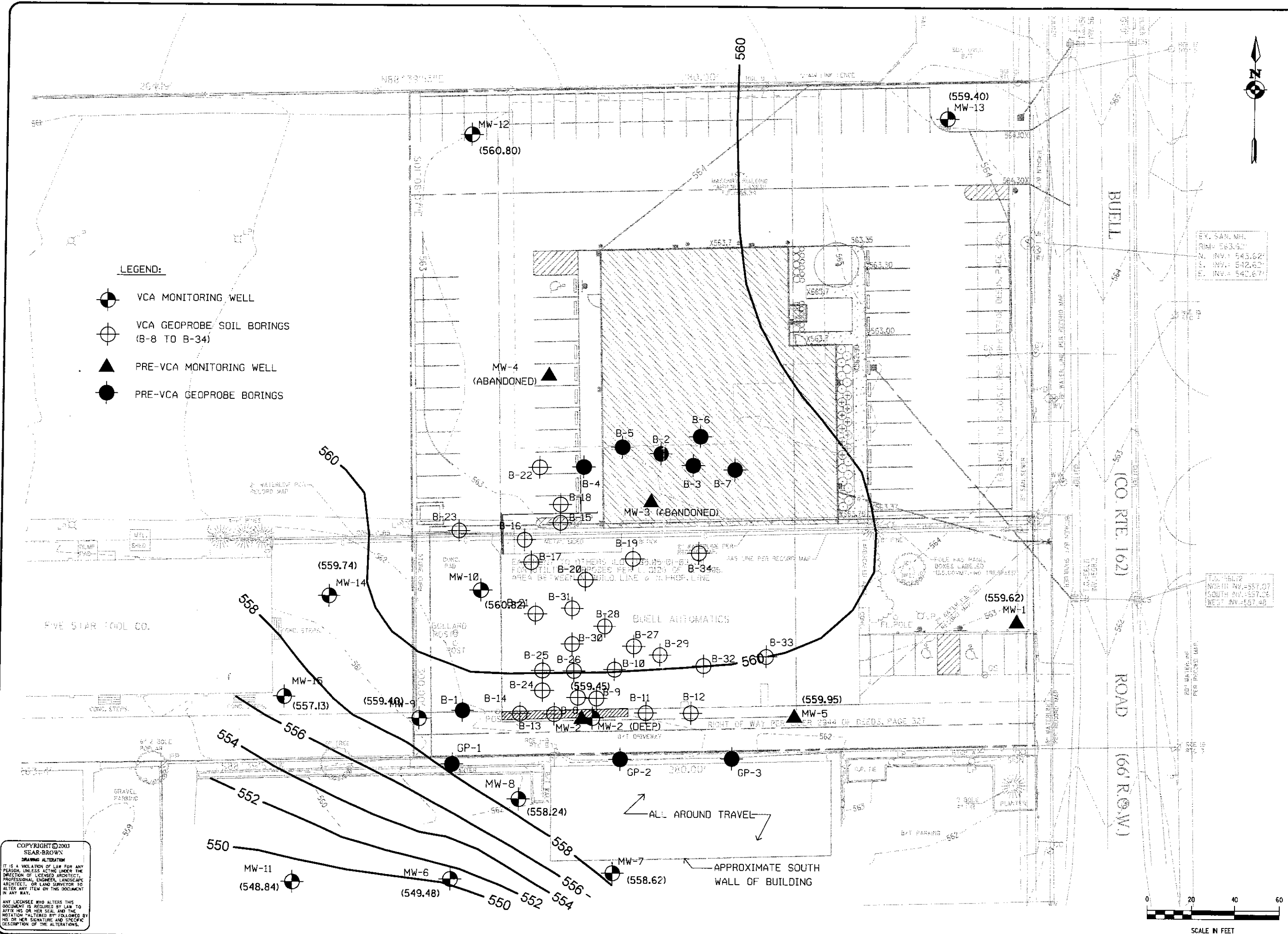
PROJECT		PROJECT NO.		DRAWING NO.	
VOLUNTARY INVESTIGATION BUJELL AUTOMATICS, INC. 381 BUELL RD ROCHESTER, NY		16059		FIG. 2	

PROJECT		PROJECT NO.		DRAWING NO.	
VOLUNTARY INVESTIGATION BUJELL AUTOMATICS, INC. 381 BUELL RD ROCHESTER, NY		16059		FIG. 2	

Noted by: Conley
Date: 05/05/03
Project: 16059
Drawing: 16059-FIG. 3.dgn
Title: WATER LEVEL CONTOUR MAP
Scale: 1"=20'

LEGEND:

- VCA MONITORING WELL
- VCA GEOPROBE SOIL BORINGS (B-8 TO B-34)
- PRE-VCA MONITORING WELL
- PRE-VCA GEOPROBE BORINGS



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DESCRIPTION OF THE ALTERATIONS.

PROJECT		TITLE OF DRAWING	
VOLUNTARY INVESTIGATION BUELL AUTOMATICS, INC. 38 BUELL RD ROCHESTER, NY		WATER LEVEL CONTOUR MAP (MARCH 31, 2003)	

PROJECT ENGINEER/ARCHITECT		DRAWN BY	
D. BELASKAS, P.E. PROJECT MANAGER M. STORDINSKY		M. CONLEY SCALE 1"=20'	

REVISIONS		DATE	
6			
5			
4			
3			
2			
1			
0			

FIRST ISSUE DATE	
07/01/03	

SEAR-BROWN
85 Metro Park
Rochester, N.Y. 14623-2874
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT NO.
16059
DRAWING NO.
FIG. 3

Appendix A

Select Project Photographs



DESCRIPTION:

**SOUTH-SOUTHEASTERN EXTENT OF IRM
EXCAVATION (FACING SOUTH)**

PHOTO 1



DESCRIPTION:

**SOUTH-SOUTHEASTERN EXTENT OF IRM
EXCAVATION (FACING NORTHEAST)**

PHOTO 2



DESCRIPTION:

**SOUTHWESTERN EXTENT OF IRM EXCAVATION
(FACING WEST)**

PHOTO 3



DESCRIPTION:

**SOIL LOADING FROM SOUTHWESTERN EXTENT OF
IRM EXCAVATION (FACING SOUTHEAST)**

PHOTO 4



DESCRIPTION:

**RUSMAR APPLICATION ON SOUTHWESTERN
PORTION OF IRM EXCAVATION**

PHOTO 5



DESCRIPTION:

**SECONDARY CONCRETE SLAB WITHIN NORTHERN
PORTION OF IRM EXCAVATION**

PHOTO 6



DESCRIPTION:

IRM EXCAVATION AT NORTHERN SIDE OF CENTRAL
PIER

PHOTO 7



DESCRIPTION:

NORTHWESTERN EXTENT OF IRM EXCAVATION
(FACING WEST)

PHOTO 8



DESCRIPTION:

**NORTH-NORTHEASTERN EXTENT OF IRM
EXCAVATION (FACING NORTHEAST)**

PHOTO 9



DESCRIPTION:

**ADDITIONAL AREA TO WEST OF ORIGINAL IRM
EXCAVATION FOOTPRINT (FACING SOUTH)**

PHOTO 10

Appendix B

**GZA Memorandum “Engineering Support at Buell Automatics, Inc.”
Dated December 19, 2003**

GZA GeoEnvironmental of New York**364 Nagel Drive****Buffalo, New York 14225****Phone: (716) 685-2300****Fax: (716) 685-3629**

Date: 12/19 **Job Number:** 55833

To: **Name:** Dave Belaskas
 Company: Sear Brown
 Fax: 585-424-5951

From: Ernie

Pages: 11 (including cover)

Subject: 381 Buell Td.

Note:

Memorandum

To: Keith Hambley, SLC Environmental Services (SLC)
From: Ernie Hanna
Date: December 19, 2003
Re: Engineering Support at Buell Automatics, Inc.

This memo is to summarize our recommendations for work to be completed by SLC at the Buell Automatics, Inc., facility located at 381 Buell Road in Rochester, New York (Site). As per your request, GZA visited the Site on Tuesday December 16th to make observations and measurements of an interior portion of the building where SCL is scheduled to complete an Interim Remedial Measure (IRM) to remove contaminated soil below the concrete floor.

It is GZA's understanding that in order for SLC to complete the planned soil excavation within the interior portion of the building, several structural support columns (steel poles) will need to be temporarily relocated in order to facilitate the proposed excavation dimensions (approximately 17 feet wide by 27 feet long by 6 feet deep).

SLC's scope of work, as understood by GZA, to complete this project is summarized below.

- SLC will cut open the southern exterior wall (approximately 7 feet wide by 7 feet high) to allow for excavation equipment to enter the interior of the building.
- The excavation area will encompass five existing support columns used to support the second floor structural steel. Four of the support columns are set in concrete footers (assumed 2-4 feet below ground surface (bgs)). These footers and the soil below them will not be excavated. One support column located within the western side of the IRM excavation will be temporarily removed as it is bolted into the floor. A temporary column will be placed just outside of the excavation approximately 6 feet west of the removed column. This temporary support column will be jacked up against the second floor structural beam by means of a 15 ton jack.

Buell Automatics, Inc.

Page 2

File 21.0055833

December 18, 2003

- An excavation trench approximately 12-inches wide by seven feet deep will be dug for placement of quick-set concrete around the limits of the IRM excavation. This wall will be installed to limit the movement of the subsurface sands below the existing floor slab during the IRM excavation. Steel rebar will be installed vertically through the concrete into the underlying soil to a depth of about 10-feet below the floor slab to assist in retaining wall stability.

Based on the above scope of work, former soil boring logs, measurements collected at the Site (e.g., structural steel dimensions and locations), and facility operation observations, GZA's recommendations are as follows.

- Prior to excavation or structural column relocation activities are done, the stored material (boxes of facility products) located on the second floor should be either removed or placed as far to the west as possible (west of the relocated temporary structural column) to minimize the static load over the IRM excavation area.
- The temporary support columns jacked up against the second floor structural beams should be sized no less than a W6x9 structural flange (3.9-inch width by 5.9-inch depth by approximately 6 feet in length). Prior to installation, the jacks should be placed on a steel plate no less than ½-inch in thickness and approximately 4 to 6 square feet in area. Temporary columns should not be placed more than 6 feet from the location of the structural column to be removed.
- The one foot wide by seven foot deep perimeter excavation shall be completed in sections. The east wall and west wall shall be excavated first followed by placement of a quick cure concrete (approximately 2,000 psi compressive strength), #8 steel rebar placed vertically at a 1-foot spacing to a depth of 10-feet and #8 rebar placed horizontally in the bottom of the excavation with an approximate 2-foot overlap. The rebar shall be placed prior to concrete placement. The next day, the northern and southern wall will be excavated and filled with concrete and steel rebar in the similar manner. The western and northern excavation wall will have concrete placed from the ground surface to the bottom of the excavation. The eastern and southern excavations will have concrete placed from approximately three feet bgs to the bottom of the excavation as the adjacent walls have continuous footers extending to approximately 4 feet bgs (see attached sketch for detail).
- In an effort to aid in stability of the concrete perimeter walls, steel rebar (e.g., #8 or larger) shall be installed through the concrete to a depth of approximately 10- feet bgs. The rebar placement should be spaced no more than 1-foot apart, as noted above.
- Dewatering of excavations will be required in the event groundwater is encountered. Care should be taken when dewatering these excavations as the flow rate should not

Buell Automatics, Inc.

Page 3

File 21.0055833

December 18, 2003

be high enough that fines (e.g., silt and clay material) are removed from the subsurface soils.

- Soil around interior footers supporting structural columns can be excavated from the ground surface to the bottom of the footer. Below the footer, the excavation should be done on a 1 horizontal:1 vertical slope (1H:1V) to prevent undermining of soil below the footers.
- The contaminated soil excavation shall be completed not at one time, rather in smaller sections so not to have too much excavation open at one time. Structural fill (e.g., pea-gravel or NYSDOT Item No. 4) should be placed in the open excavation as soon after soil is excavated, where practical. Partial backfill is suitable also. Specifically, interior columns and wall foundations should be excavated and backfilled in a stepped or phased manner (i.e., excavate and backfill one side of an interior column before excavation of the other side) to limit soil slumping underneath the system. A compactive effort should be done on the fill material once placed in the open excavation.
- At the completion of the IRM activities, the one relocated support column should be installed back to its original location prior to removal of the temporary column.

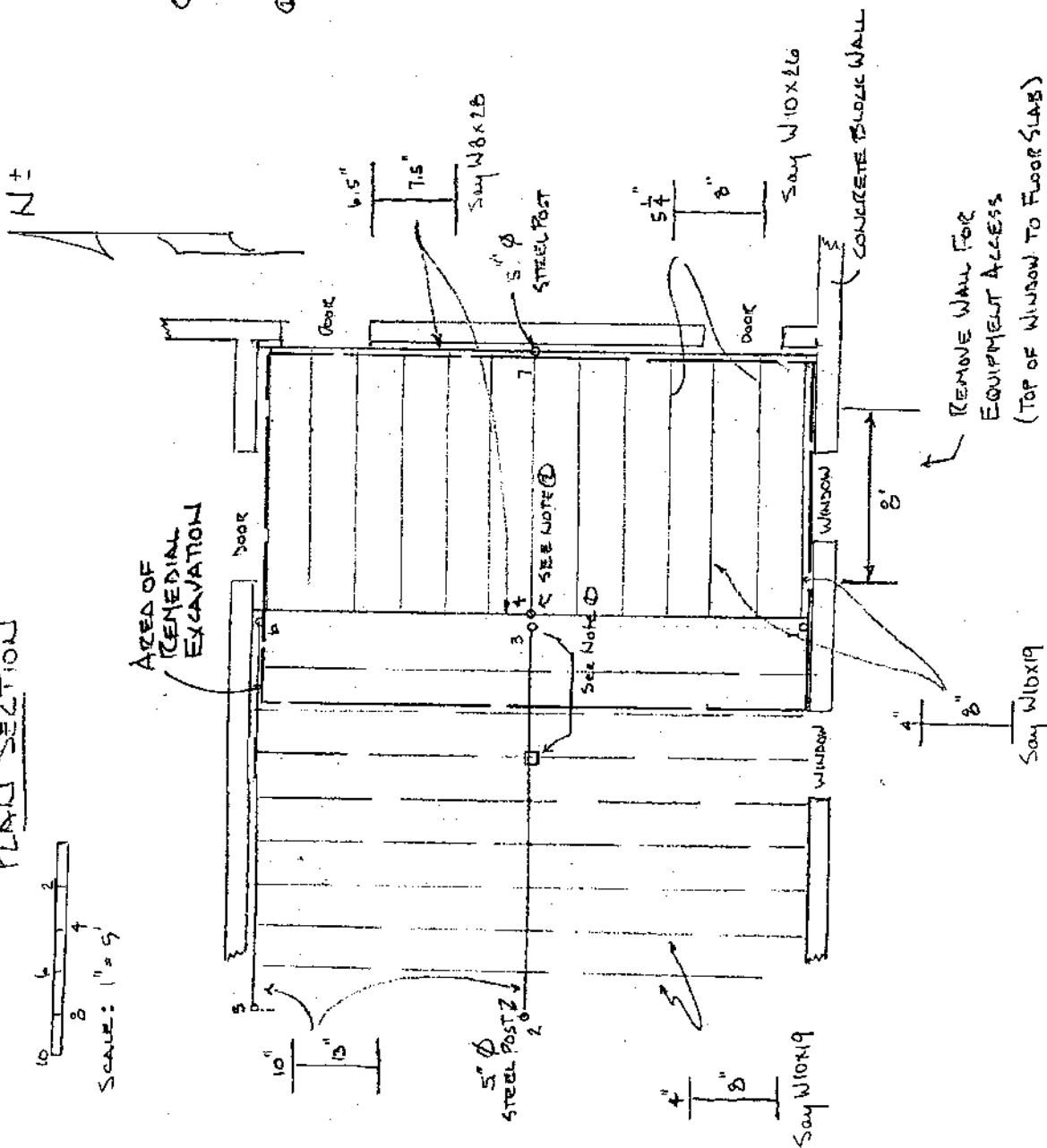
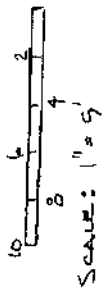
We appreciate the opportunity to work with you on this project and hope the above recommendations satisfies your needs. Please feel free to contact us with any questions or comments.

Sincerely,

GZA GeoEnvironmental of New York

Ernest R. Hanna, P.E.
Associate Principal

PLAN SECTION



NOTES:

- ① RELOCATE (TEMP) 5" ϕ POST ABOUT 6' (WILL HAVE 6' CANTILEVER SECTION) DURING EXCAVATION, THEN REPAIR.
- ② TEMPORARY RELOCATION OF 5" ϕ POST DURING EXCAVATION SOUTH AND/OR NORTH AS NEEDED TO AVOID SOME EXCAVATION - THEN REPLACE DURING RECONSTRUCTION.

1 0 : 5-11 ϕ STEEL SUPPORT POST



**GZA GeoEnvironmental
of New York**
Engineers and Scientists

Page No. 1 of 2

Project Buell Automatics

File No. 55833

Location 381 Buell Rd. Rochester NY

Date 12/17/03

By D J Ry

Subject Second Floor Loads on support beams

Checked E/RH

By 12/17/03

Based on

Revised

By

STEEL DECKING WEIGHT

Type 19-4 is most common grating type in the industry
Assume Beaming Bar Size is 1-1/2" x 1/8"

Thus weight (lbs/sq ft) = 7.23 lbs/sq. ft

TOTAL AREA OF GRATING OVER SUPPORT COLUMNS (see Figure) =

$$12.5 \text{ ft} \times 24.5 \text{ ft} \approx 306 \text{ ft}^2$$

$$\text{TOTAL STATIC weight of steel Grate} = \frac{7.23 \text{ lb}}{\text{ft}^2} \times 306 \text{ ft}^2 \approx 2210 \text{ lbs}$$

STRUCTURAL STEEL WEIGHT

$$W10 \times 19 \approx 19 \text{ lb/ft} \times 12.5 \text{ feet} \times 7 \text{ beams} \approx 1663 \text{ lbs} \checkmark$$

$$W10 \times 26 \approx 26 \text{ lb/ft} \times 12.5 \text{ ft} \times 6 \text{ beams} \approx 1950 \text{ lbs} \checkmark$$

$$W8 \times 28 \approx 28 \text{ lb/ft} \times 24.5 \text{ ft} \times 2 \text{ beams} \approx 1372 \text{ lbs} \checkmark$$

TOTAL STATIC LOAD FROM metal grate Floor and structural steel

$$2210 + 1663 + 1950 + 1372 \approx 7195 \text{ lbs} \checkmark$$

$$7195 / 6 \approx 1200 \text{ lbs per Column Load Support} \checkmark$$



**GZA GeoEnvironmental
of New York**
Engineers and Scientists

Page No. 2 of 2

Project Buell Automatics

File No.

Location 331 Buell Rd. Rochester NY

Date 12/17/03 By DTrey

Subject Second Floor Dead Loads

Checked 12/17/03 By ERH

Based on

Revised By

→ 5" ←



5-inch diameter support pole

Wall thickness = 0.258 inches

Assume effective length of 8 feet

Design Axial strength in Kips = 115

Assume Factor of Safety = 3, $115/3 = 38.3$ Kips

Axial strength > 2nd floor dead loads

$(38.3 \text{ Kip} > 1.2 \text{ Kip})$

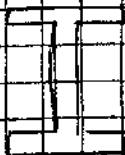
Assume 40,000 pounds of material stored on 2nd floor

$40 \text{ Kips} + 7.2 \text{ Kip} = 47.2 \text{ Kips}$

$47.2/6 = 7.9 \text{ Kips per column beam.}$

Temporary Support using 15-ton jack (30 Kips)

$30 \text{ Kips} / 8 \text{ Kips} = 3.8$ Factor of Safety



Consider using W6 x 19 $F_y = 36 \text{ Ksi}$

Area = 2.68 inches² - square

Allowable Load = $\left(\frac{36 \text{ Kips}}{\text{in}^2} \right) (2.68 \text{ in}^2) = 96 \text{ Kips} (.85) = 82 \text{ Kips}$

Factor of Safety = $\frac{82 \text{ Kips}}{8 \text{ Kips}} = 10$



GZA GeoEnvironmental
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Engineers and Scientists

Page No.

Project *Buell Road Automates*File No. *55833*Location *Rochester NY*Date *12/19/03*By *D. Frey*Subject *Concrete wall installation*

Checked

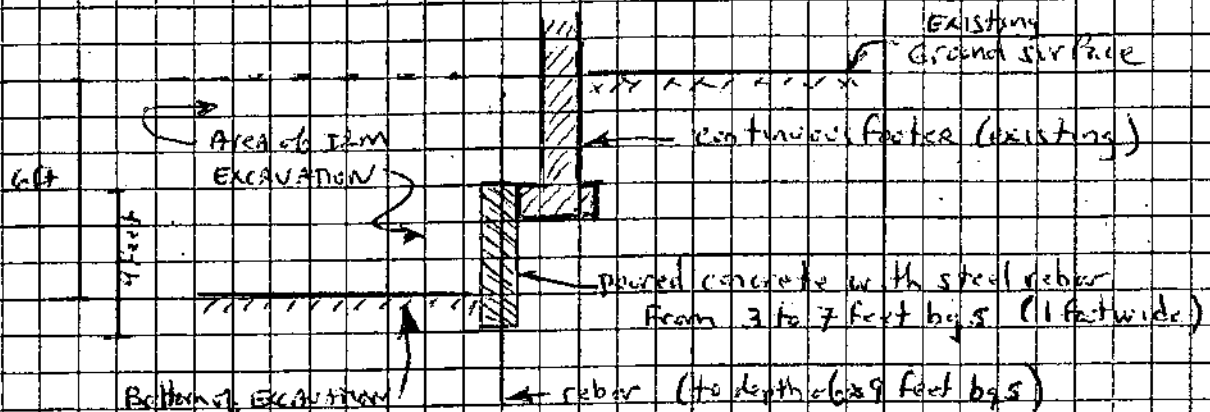
By

Based on

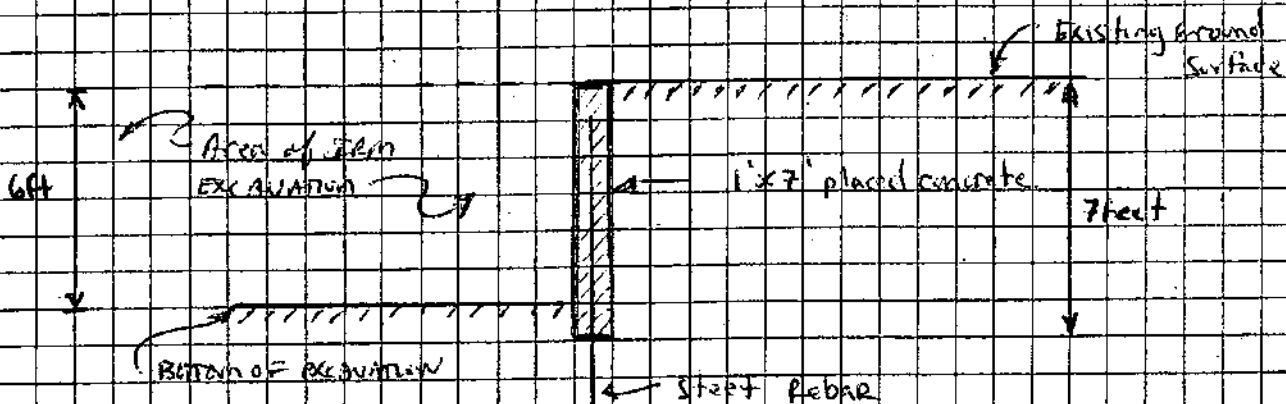
Revised

By

CONCRETE PLACEMENT CROSS-SECTIONS



SOUTHEAN AND EASTERN WALL CONCRETE INSTALLATION

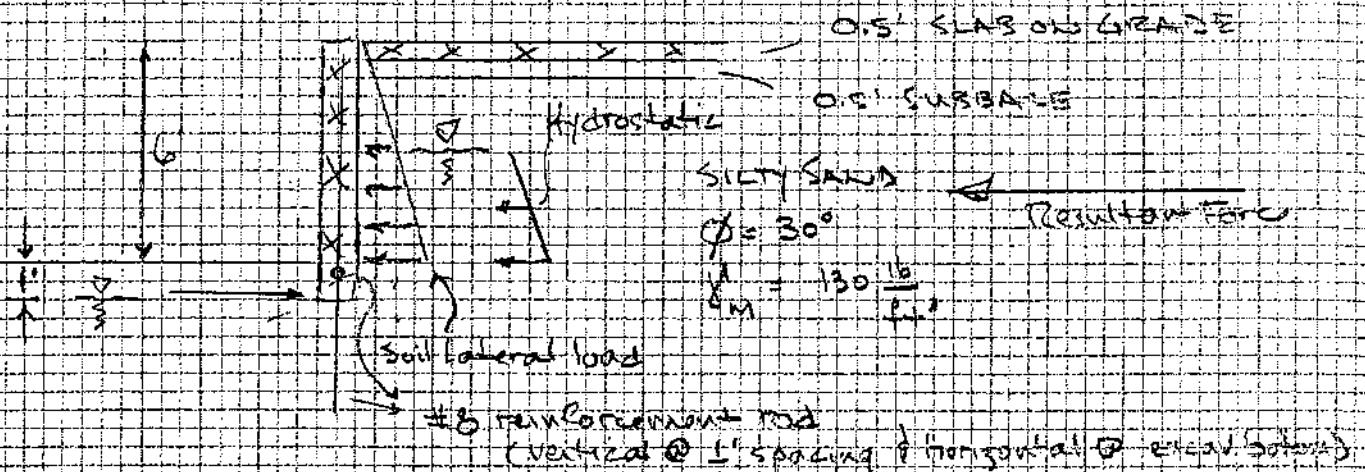


EASTERN AND NORTHERN WALL CONCRETE INSTALLATION



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Project 381 BUELL RD ILM
Location ROCHESTER NY
Subject TEMPORARY RETAINING WALL
Based on SEE BELOW



$$\begin{aligned} & (0.5 \text{ ft}) \left(130 \frac{\text{lb}}{\text{ft}^3} \right) + (0.5 \text{ ft}) \left(140 \frac{\text{lb}}{\text{ft}^3} \right) + (2 \text{ ft}) \left(130 \frac{\text{lb}}{\text{ft}^3} \right) + (3 \text{ ft}) \left(130 - 62 \frac{\text{lb}}{\text{ft}^3} \right) \\ & = 75 \frac{\text{lb}}{\text{ft}^2} + 70 \frac{\text{lb}}{\text{ft}^2} + 260 \frac{\text{lb}}{\text{ft}^2} + 204 \frac{\text{lb}}{\text{ft}^2} = 609 \frac{\text{lb}}{\text{ft}^2} \end{aligned}$$

ACTIVE LATERAL LOAD

$$K_a = \tan^2 \left(45 - \frac{\phi}{2} \right) = \tan^2 \left(45 - 15 \right) = \tan^2 30^\circ = 0.33$$

$$\begin{aligned} \text{Lateral load on gravity wall} &= \left(609 \frac{\text{lb}}{\text{ft}^2} \right) (0.33) + (2 \text{ ft}) \left(62 \frac{\text{lb}}{\text{ft}^3} \right) \\ &= 201 + 186 = 387 \end{aligned}$$

Force acting at about 4' bgs

PASSIVE LATERAL LOAD (TOE RESISTANCE)

$$K_p = \tan^2 \left(45 + \frac{\phi}{2} \right) = \tan^2 \left(45 + 15 \right) = \tan^2 60^\circ = 3$$

Assume bottom of excavation dewatered to a depth of about 1/2 ft

$$\text{Lateral load @ } (1 \text{ ft}) \left(130 \frac{\text{lb}}{\text{ft}^3} \right) (3) = 390 \frac{\text{lb}}{\text{ft}^2}$$

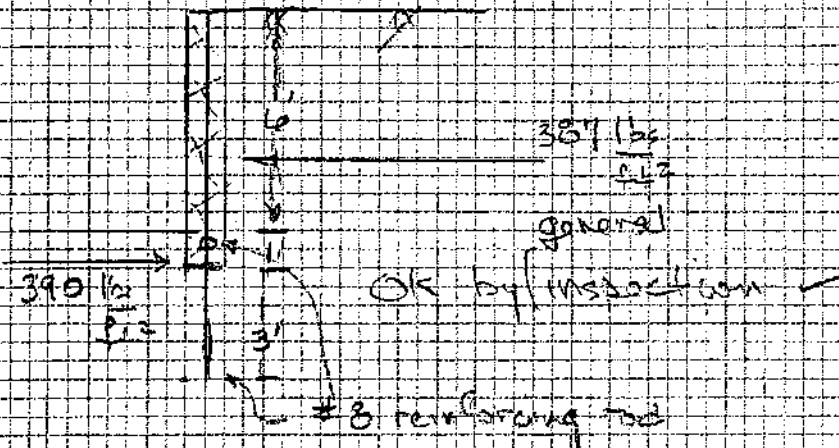
390 > 387 FS ≈ 1 ; OK for temporary installation



GZA
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Engineers and Scientists

Project 381 BUEL RD ILM
Location ROCHESTER NH
Subject TEMPORARY RETAINING WALL
Based on SEE BELOW

SLIDING



OVERTURNING

$$\frac{(390 \frac{lb}{ft})(1' ft)}{(387 \frac{lb}{ft})(3' ft)} = 390 \frac{lb/ft}{1161 \frac{lb}{ft}} < 1.0 \quad \text{No Load}$$

Use Reinforcing steel to pin temporary retaining wall
Say reinforcing rod driven to 10 depth @ 1' spacing
Positive lateral resistance =

$$\left[(3' ft) \left(\frac{130 \frac{lb}{ft}}{ft} \right) + (1' ft) \left(\frac{130 \cdot 62 \frac{lb}{ft}}{ft} \right) \right] (3) =$$

$$(390 + 476)(3) = 2598 \frac{lb}{ft}$$

Resultant resistant force acts at depth of about 6.7 ft
or 0.3 ft above assumed rotation point

Therefore overturning FS equals (reduction for reinforced steel spacing)

$$\frac{(390 \frac{lb}{ft}) + (2598 \frac{lb}{ft})(1' ft)(0.5)}{1161 \frac{lb}{ft}} = 1.45 \quad \text{OK for temp}$$



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Project 381 BUELL RD.
Location ROCHESTER NY
Subject TEMPORARY RETAINING WALL
Based on SEE BELOW

BEARING CAPACITY

$$Use\ q_{ult} = \gamma'_s (N_q - 1) + (0.5) \gamma' B N_q$$

$$\phi = 30^\circ$$

$$N_q = 22.5$$

$$N_{\gamma} = 20.1$$

$$\begin{aligned} q_{ult} &= (2') \left(\frac{130 - 62 \frac{\text{lb}}{\text{ft}^3}}{2.5} \right) (22.5) + (0.5) \left(\frac{68 \frac{\text{lb}}{\text{ft}^3}}{2.5} \right) (1') (20.1) \\ &= \left(\frac{2920 \text{ lb}}{\text{ft}^2} \right) + \left(\frac{680 \text{ lb}}{\text{ft}^2} \right) = 3600 \frac{\text{lb}}{\text{ft}^2} \end{aligned}$$

Weight of concrete slurry retaining wall

$$(8' \text{ deep}) (1' \text{ wide}) \left(\frac{145 \text{ lb}}{\text{ft}^3} \right) = 1160 \frac{\text{lb}}{\text{ft}^2}$$

$$\text{Factor of Safety} = \frac{3600 \frac{\text{lb}}{\text{ft}^2}}{1160 \frac{\text{lb}}{\text{ft}^2}} = 3.1 \quad \text{OK}$$

Appendix C

Wendel Survey Report, dated March 24, 2004



March 24, 2004

SLC Environmental Services
552 Avis Street
Rochester, NY 14616

Attention: Keith Hambley

SUBJECT: BUELL AUTOMATICS, INC.
ELEVATION SURVEY

Dear Mr. Hambley:

Wendel Duchscherer Survey provided two (2) elevation surveys for monitoring of movement during excavation activities at the Buell Automatics facility in Rochester New York.

The initial elevation survey work was performed on December 18, 2003, with the final survey being performed on January 5, 2004. Attached are copies of the field data for both survey events.

Field measurements were made at locations defined by others to 0.001 feet with a Wild NA 24 conventional level. No significant changes in elevation were found at the time of survey.

Please phone us at 716-433-5993 with any questions.

Thank you for using Wendel Duchscherer Survey for your surveying needs on this project.

Sincerely,

WENDEL DUCHSCHERER SURVEY

A handwritten signature in black ink, appearing to read 'Marshall D. Wilson'.

Marshall D. Wilson, P.L.S.
Project Manager

WENDEL DUCHSCHERER

ARCHITECTS & ENGINEERS

AMHERST
716.688.0766BUFFALO
716.882.0100LOCKPORT
716.433.5993ALBANY
518.433.8146

S&S BUEL AUTOMATICS

PROJECT NO. FILE NO. 3263-15

CALC. BY BJS DATE 12/19/03

CK'D BY BJK DATE WIND NA #24-#3

APP. BY DATE

CALC. NO. PAGE 1 OF 4

LEVEL RUN FOR EXISTING SITE CONDITIONS

BS HI FS ELEV. DESC.

4.520 104.520 100.00 BM1 SE COR CONC STEP

HI LETTER DESIGNATION

(A)

4.913 107.343 2.090 102.430 TP-1

(B)

4.791 107.252 4.832 102.511 TP-2

(C)

4.901 107.333 4.820 102.432 TP-3

3.989 106.417 4.865 102.468 TP-4

4.578 105.975 5.020 101.397 TP-5

4.008

101.367

BM2 CLOSEST, TOP OF PK WALL
(101.96)/ 0.01
625



WENDEL DUCHSCHERER

ARCHITECTS & ENGINEERS

AMHERST
716.688.0766

BUFFALO
716.882.0100

LOCKPORT
714.433.5993

ALBANY
518.433.8146

GLE: BUEL AUTOMATICS

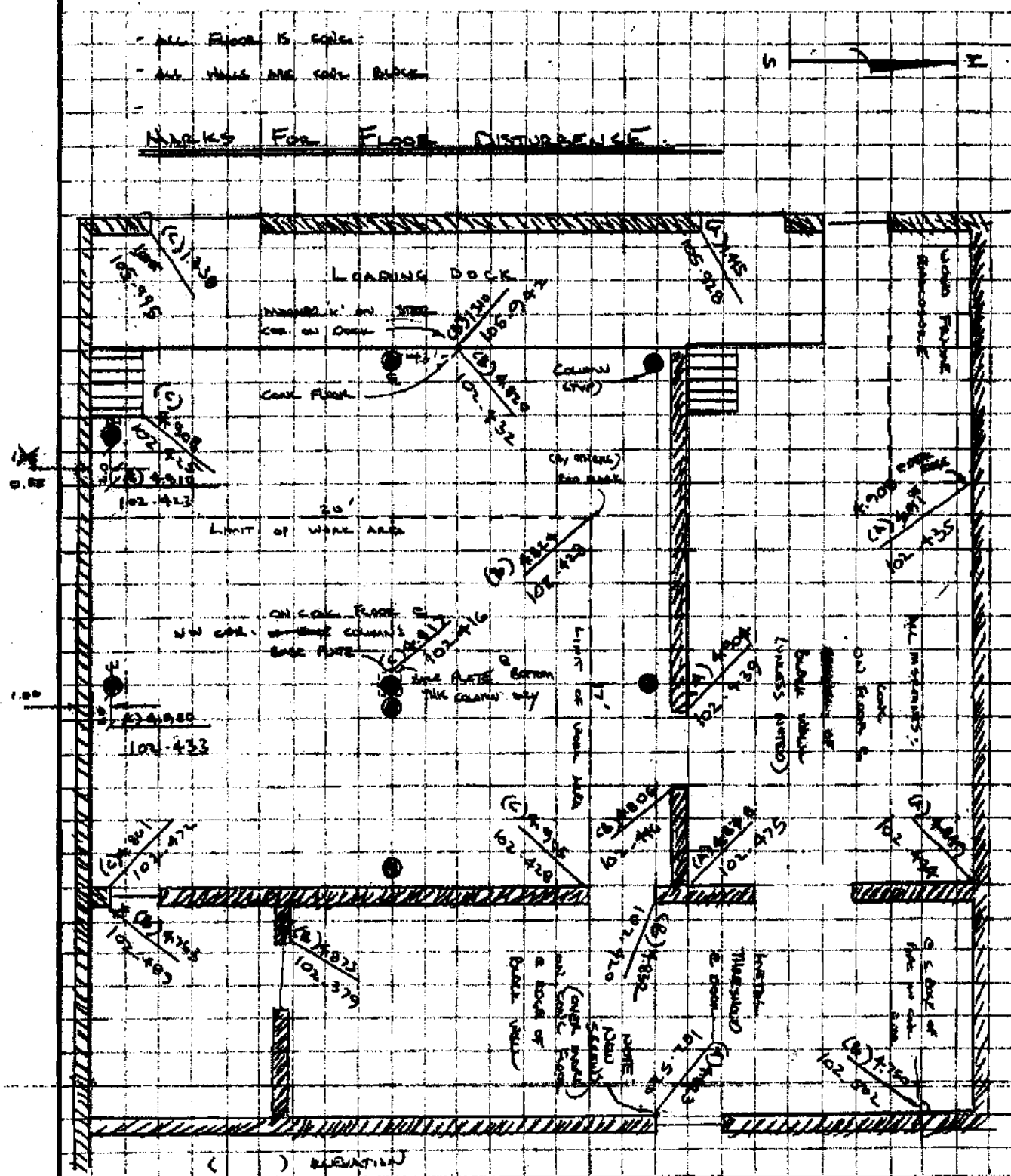
PROJECT NO. _____ FILE NO. 3263-1E

CALC BY BNS DATE 12/18/03

CK'D BY BMK DATE 12-10-14

APP. BY _____ DATE _____

CALC. NO. _____ PAGE 2 OF 4



(LETTER) DESIG. DATES VARIANTS. DESIG FROM HQ (LETTER)



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BUFFALO
716.882.0100

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716.433.5993

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518.433.8146

SCL: BULL AUTOMATICS

PROJECT NO. _____ FILE NO. 3243-15

CALC. BY 8-15 DATE 12/18/03

CK'D. BY BANK DATE June 11 # 24 # 3

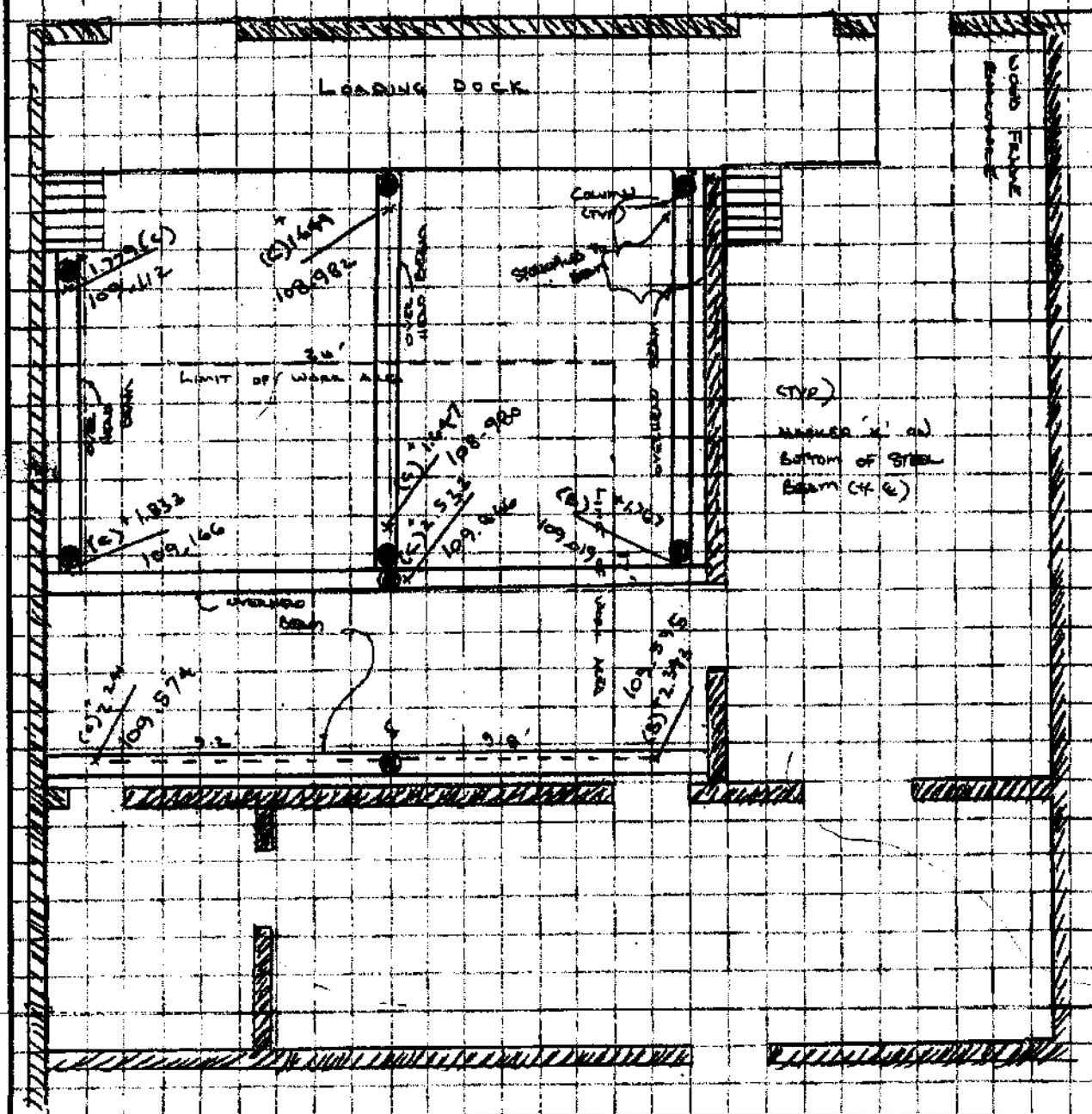
APP BY _____ DATE _____

CALC. NO. _____ PAGE 3 OF 4

Mr. Flood to Senate.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466

WORKS FOR BOTTOM OF BELLA SETTLEMENT



(LETTER) DESIGNATES INSTANT. TAKEN FROM HE (LETTER)



WENDEL DUCHSCHERER

ARCHITECTS & ENGINEERS

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716.852.0100

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ALBANY
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SAC: BUREAU AUTOMATICS

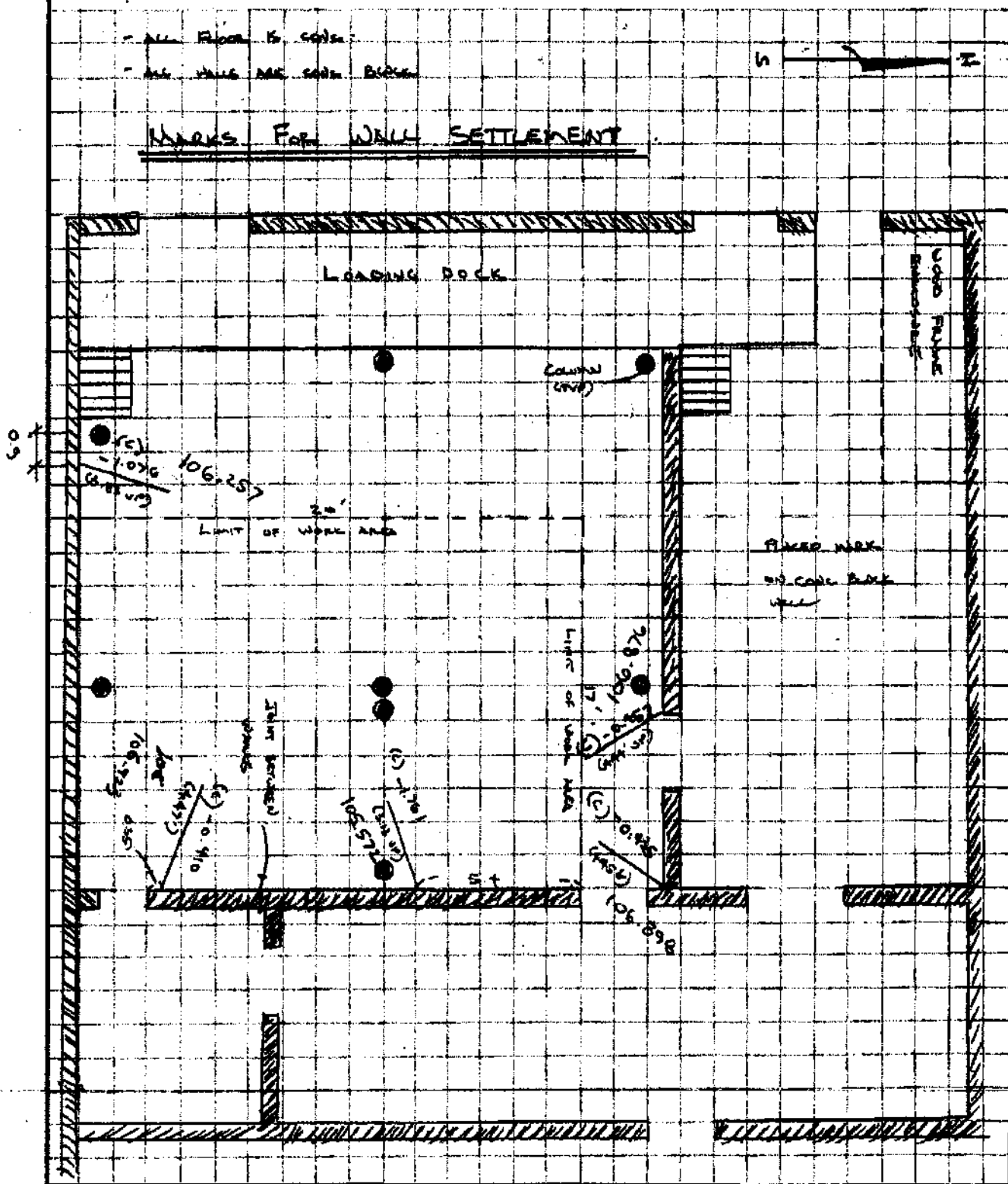
PROJECT NO. _____ FILE NO. 3243-13

CALC. BY BLS DATE 12/18/03

CK'D. BY BAK DATE WED JUL 21 1992

APP. BY _____ DATE _____

CALC. NO. _____ PAGE 4 OF 4



(LETTER) DEPT. NAME INSMT. TAKEN FROM H.C. (LETTER)

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AMHERST
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716.882.0100LOCKPORT
716.433.5993ALBANY
518.433.8146

S.E.C. BUELL & ASSOCIATES

PROJECT NO. FILE NO. 3263-15

CALC. BY BUS DATE 1/5/04

CHK'D BY KSK DATE SNOW 20"

APP. BY DATE LEVEL 43 WIL 12/24

CALC. NO. PAGE 1 OF 5

LEVEL RUN FOR POST CONSTRUCTION CONDITIONS

BS HI FS ELEV. DESC.

S. 044 105.044 BM1 SE COR. CONC. STEP

HI LETTER DESIGNATION

12 (D)

S. 223 102.653 2.614 102.430 / 0.001 TP-1 (SAME AS 12/18 TP-1)

S. 239 (E) 107.747 S. 146 102.510 / 0.001 TP-2 (SAME AS 12/18 TP-2)

S. 381 (F) 107.810 S. 320 102.429 TP-3

S. 370 102.440

S. 843 101.967

S. 252 102.458

S. 858 101.952

SET MARK S } MOST NORTH WELL INSIDE ROOM
 SET MARK C N. EDGE CASING (SAME AS FLOOR)
 SET MARK E S. EDGE STEEL RISER

SET MARK S } MOST SOUTH WELL INSIDE ROOM
 SET MARK C N. EDGE CASING (SAME AS FLOOR)
 SET MARK E S. EDGE YELL RISER

S. 080 106.015 6.795 101.015 TP-4

-0.271 105.644 BOTTOM OF SOUTHWEST COR. OF
ELEC. PAN ON WALL4.044 101.971 BM2 CLOSEST
/ 0.011 (101.960 PBLUSH'D)



WENDEL DUCHSCHERER
ARCHITECTS & ENGINEERS

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716.688.0766

BUFFALO
716.882.0100

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716.433.5998

ALBANY
518,433,6146

SLC: BUREAU AUTOMATICS

PROJECT NO. _____ FILE NO. 3263-15

CALC. BY RJS DATE 4/18/04

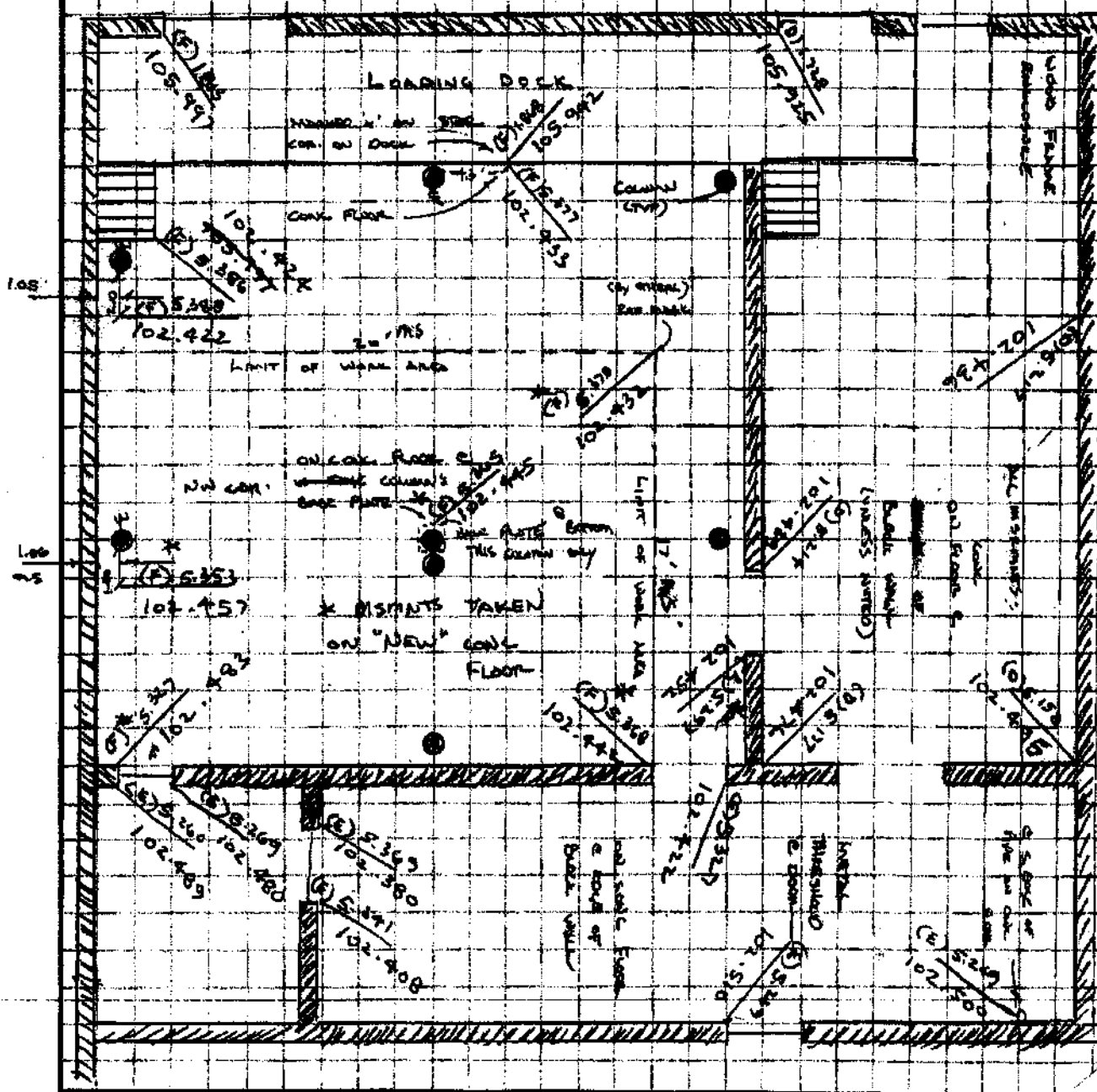
CK'D. BY KSH DATE Nov 24 83

APP. BY _____ DATE _____

CALC. NO. _____ PAGE 2 OF 5

-	Ac	Flora	K	Coils
-	Ac	Walls	Coils	Blades

Mr. K. B. Moore, Floor Disrupter, 1st



WENDEL DUCHSCHERER

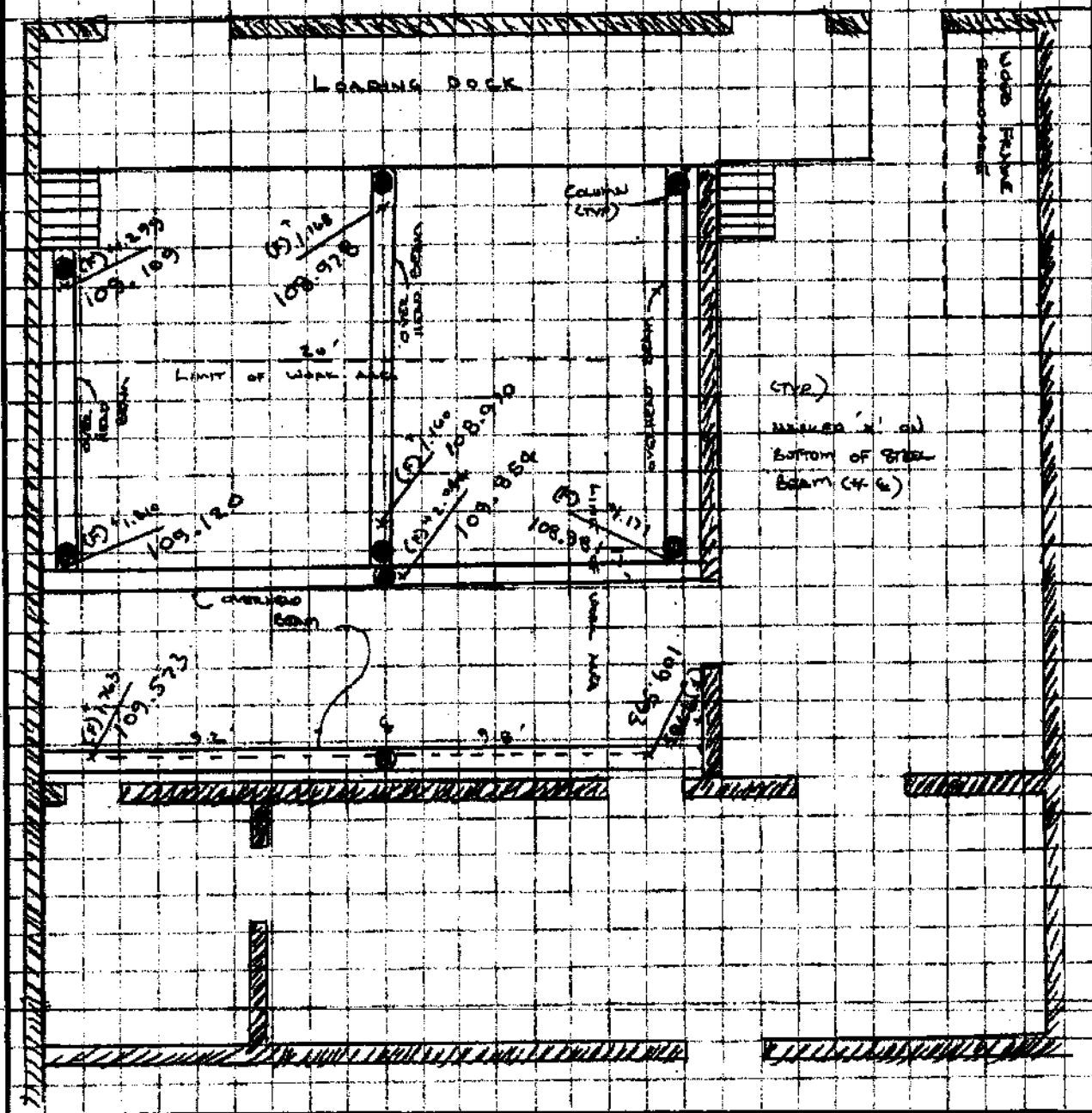
ARCHITECTS & ENGINEERS

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716.882.0100LOCKPORT
716.433.5993ALBANY
518.433.8146

S.C.: BUREAU AUTOMOTIVE
 PROJECT NO. FILE NO. 3263-15
 CALC. BY: BNS DATE: 1/5/04
 CK'D. BY: KSK DATE: 1/10/04
 APP. BY: DATE:
 CALC. NO. PAGE: 3 OF 5

- ALL FLOOR IS CONCRETE
- ALL WALLS ARE CONCRETE BLOCK

MARKS FOR BOTTOM OF BEAM SETTLEMENT





WENDEL DUCHSCHERER

ARCHITECTS & ENGINEERS

AMHERST
716.688.0766

BUFFALO
716.882.0100

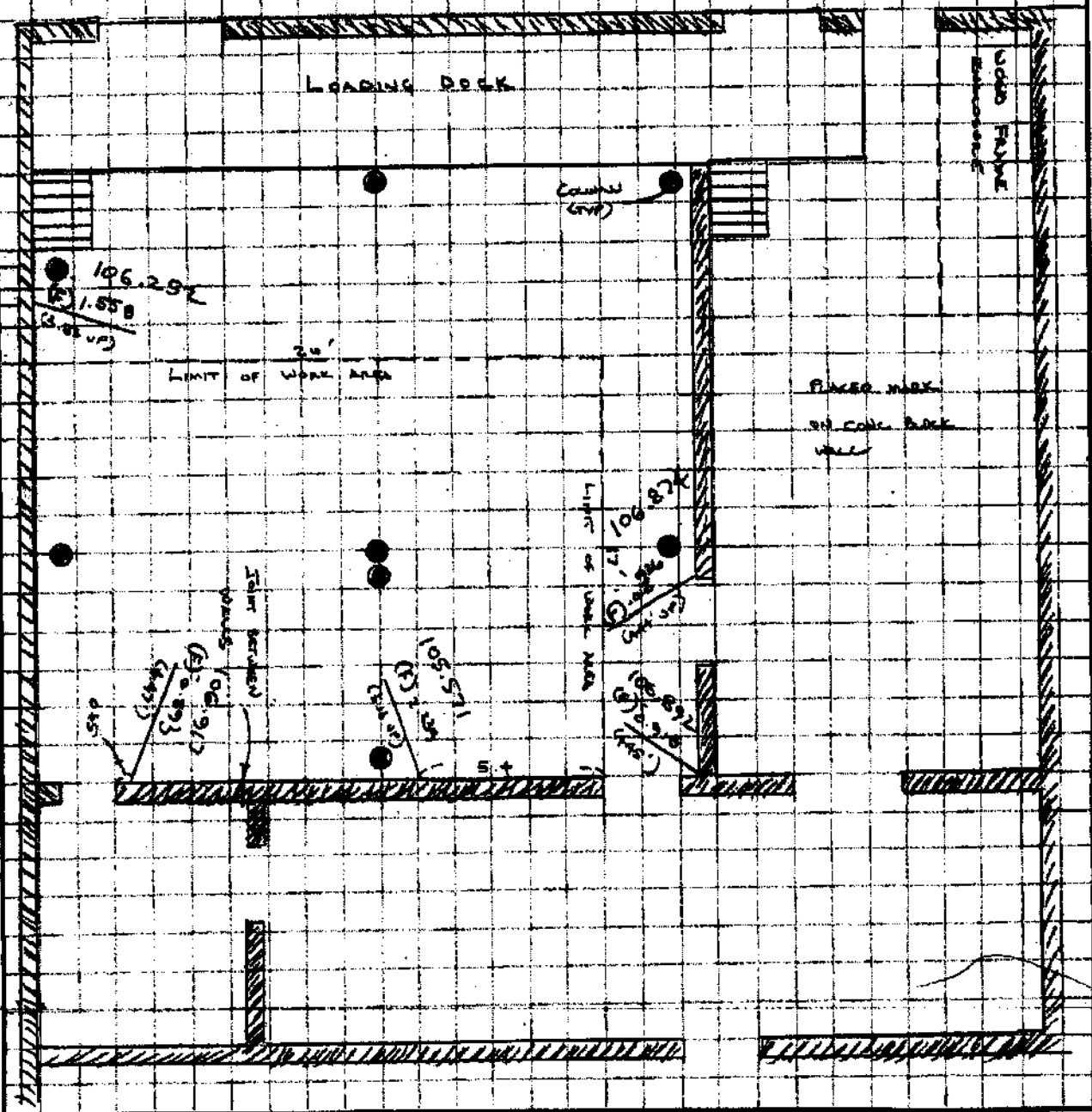
LOCKPORT
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ALBANY
518.433.8146

SCLL BUELL AUTOMOTIVES
 PROJECT NO. _____ FILE NO. 3763-15
 CALC. BY BNS DATE 1/5/04
 CKD. BY KOK DATE Waco No 29 #3
 APP. BY _____ DATE _____
 CALC. NO. _____ PAGE 4 OF 5

- ALL FLOCK IN COLE -

WORKS FOR WALL SETTLEMENT

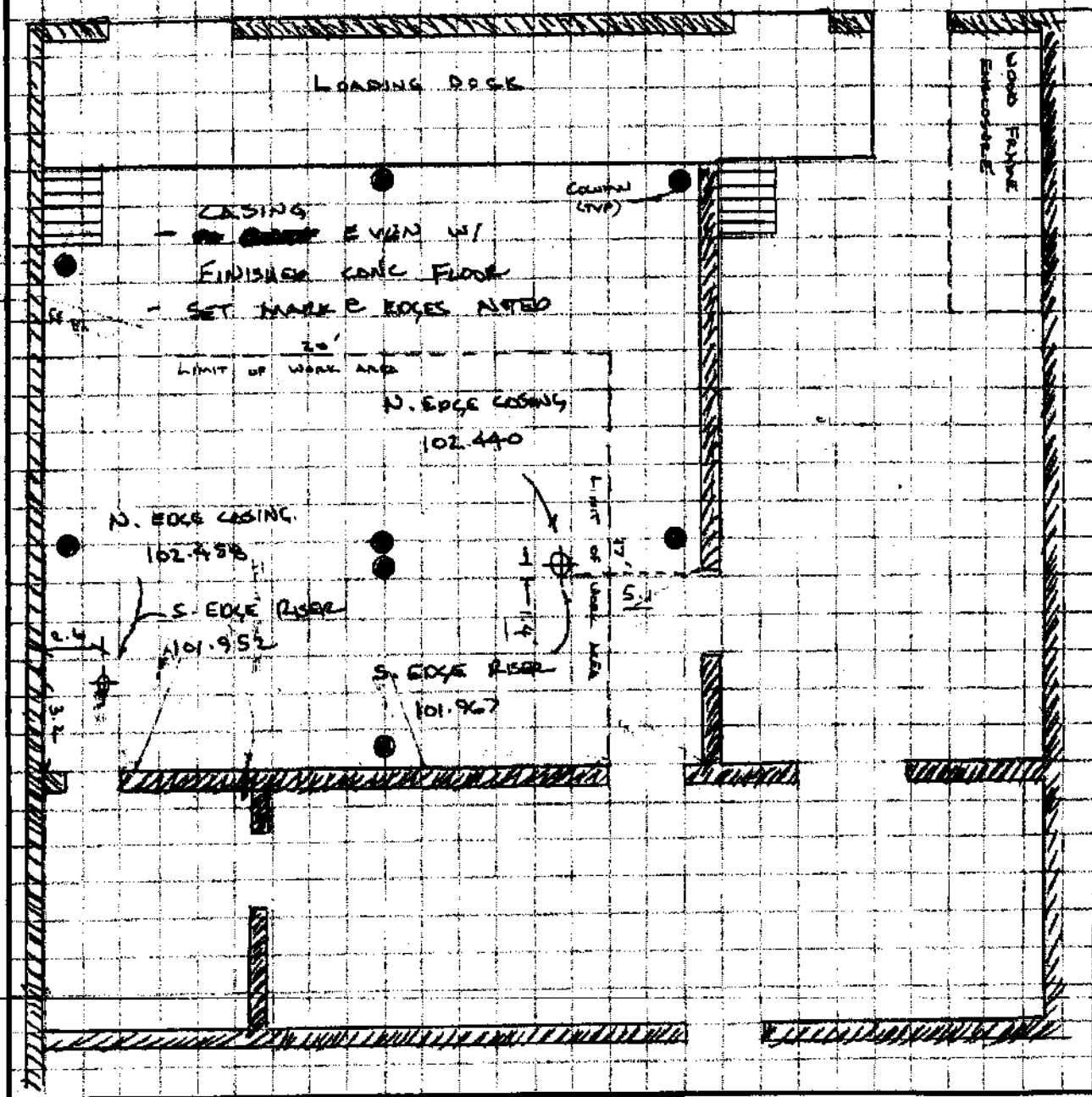


WENDEL DUCHSCHERER
 ARCHITECTS & ENGINEERS
 AMHERST 716.688.0766 BUFFALO 716.882.0100 LOCKPORT 716.433.5993 ALBANY 518.433.8146

SLC: BULL AUTOMETICS
 PROJECT NO. _____ FILE NO. 3263-15
 CALC. BY: BMS DATE 1/8/04
 CK'D. BY: KSK DATE 3/14/04 #3
 APP. BY: _____ DATE _____
 CALC. NO. _____ PAGE 5 OF 5

- ALL FLOOR IS CONC.
- ALL WALLS ARE CONG BLOCK

WELL LOCATIONS (NEW) - INSIDE ONLY



Appendix D

Waste Characterization Laboratory Analytical Results



ANALYTICAL REPORT

Job#: A04-0007

STL Project#: NY3A9089

Site Name: SLC Environmental

Task: Buell Automotives - Rochester

Mr. Keith Hambley
SLC Environmental
295 Mill Street
Lockport, NY 14094

STL Buffalo


Sally Hoffman
Project Manager

01/12/2004

STL Buffalo Current Certifications

STATE	Program	Cert # / Lab ID
A2LA (ISO 17025)	SDWA, CWA, RCRA	0732-01
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Canada	GENERAL	SCC 1007-15/10B
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	2970
USDA	FOREIGN SOIL PERMIT	S-4650
Virginia	SDWA	278
Washington	CWA, RCRA	C254
West Virginia	CWA	252
Wisconsin	CWA, RCRA	998310390
Wyoming UST	UST	NA

SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
		<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A4000701	BFC 147-25	01/02/2004		01/02/2004	13:50
A4000702	BFC 527-25	01/02/2004		01/02/2004	13:50
A4000705	PRICE 2009	01/02/2004		01/02/2004	13:50
A4000708	PRICE 2011	01/02/2004		01/02/2004	13:50
A4000704	PRICE 2013	01/02/2004		01/02/2004	13:50
A4000709	PRICE 2018	01/02/2004		01/02/2004	13:50
A4000710	PRICE 3003	01/02/2004		01/02/2004	13:50
A4000703	PRICE 3005	01/02/2004		01/02/2004	13:50
A4000706	PRICE 3010	01/02/2004		01/02/2004	13:50
A4000707	PRICE 3014	01/02/2004		01/02/2004	13:50
A4000711	PRICE X-3	01/02/2004		01/02/2004	13:50

METHODS SUMMARY

Job#: A04-0007STL Project#: NY3A9089Site Name: SLC Environmental

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8260 - TCLP VOLATILES	SW8463 8260/5ML
Toxicity Characteristic Leaching Procedure	SW8463 1311

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A04-0007STL Project#: NY3A9089Site Name: SLC EnvironmentalGeneral Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-0007

Sample Cooler(s) were received at the following temperature(s); 6.0 °C

All samples were received in good condition.

GC/MS Volatile Data

All samples were analyzed using medium level techniques due to high concentrations of both target analytes and non-target analytes.

The analyte 1,2,4-Trichlorobenzene was detected in Method Blank VBLK24 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected at or above the reporting limit.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected at or above the reporting limit.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- * Indicates analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 01/12/2004
Time: 13:44:02

Dilution Log w/Code Information
For Job A04-0007

7/34 Page: 1
Rept: AN1266R

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
BFC 147-25	A4000701	8260/5ML	10.00	007
BFC 527-25	A4000702	8260/5ML	10.00	007
PRICE 3005	A4000703	8260	25.00	008
PRICE 3005	A4000703	8260/5ML	10.00	008
PRICE 3005 DL	A4000703DL	8260/5ML	50.00	008
PRICE 2013	A4000704	8260	5.00	008
PRICE 2013	A4000704	8260/5ML	10.00	008
PRICE 2013 DL	A4000704DL	8260/5ML	20.00	008
PRICE 2009	A4000705	8260	5.00	008
PRICE 2009	A4000705	8260/5ML	10.00	008
PRICE 2009 DL	A4000705DL	8260/5ML	20.00	008
PRICE 3010	A4000706	8260/5ML	10.00	007
PRICE 3014	A4000707	8260	2.00	008
PRICE 3014	A4000707	8260/5ML	10.00	007
PRICE 2011	A4000708	8260	2.00	008
PRICE 2011	A4000708	8260/5ML	10.00	007
PRICE 2018	A4000709	8260	10.00	008
PRICE 2018	A4000709	8260/5ML	10.00	008
PRICE 2018 DL	A4000709DL	8260/5ML	50.00	008
PRICE 3003	A4000710	8260/5ML	10.00	007
PRICE X-3	A4000711	8260/5ML	10.00	007

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

Sample Data Package

Date: 01/12/2004
Time: 13:44:16

SLC Environmental
Buell Automotive - Rochester
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: m1246

9/34

Client ID	Lab ID	Units	BFC 147-25 A04-0007 01/02/2004	Reporting Limit	BFC 527-25 A04-0007 01/02/2004	Reporting Limit	PRICE 2009 A04-0007 01/02/2004	Reporting Limit	PRICE 2011 A04-0007 01/02/2004	Reporting Limit
Job No	Sample Date	Analyte	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone		UG/KG	ND	3700	ND	3400	ND	16000	ND	7300
Benzene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Bromodichloromethane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Bromoform		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Bromomethane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
2-Butanone		UG/KG	ND	3700	ND	3400	ND	16000	ND	7300
Carbon Disulfide		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Carbon Tetrachloride		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Chlorobenzene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Chloroethane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Chloroform		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Chloromethane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Cyclohexane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,2-Dibromoethane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Dibromochloromethane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,2-Dibromo-3-chloropropane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,2-Dichlorobenzene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,3-Dichlorobenzene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,4-Dichlorobenzene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Dichlorodifluoromethane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,1-Dichloroethane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,1-Dichloroethene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
cis-1,2-Dichloroethene		UG/KG	ND	750	ND	690	6700	3300	2900	1500
trans-1,2-Dichloroethene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
cis-1,3-Dichloropropene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
trans-1,3-Dichloropropene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Ethylbenzene		UG/KG	ND	3700	ND	3400	ND	16000	500 J	7300
2-Hexanone		UG/KG	ND	750	ND	690	ND	3300	830 J	1500
Isopropylbenzene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Methyl acetate		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Methylcyclohexane		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Methylene chloride		UG/KG	ND	750	ND	690	ND	3300	ND	1500
4-Methyl-2-pentanone		UG/KG	ND	3700	ND	3400	ND	16000	ND	7300
Methyl tert butyl ether		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Styrene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,1,2,2-Tetrachloroethane		UG/KG	ND	750	ND	690	660 J	3300	310 J	1500
Tetrachloroethene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
Toluene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,2,4-Trichlorobenzene		UG/KG	ND	750	ND	690	ND	3300	ND	1500
1,1,1-Trichloroethane		UG/KG	ND	750	ND	690	1200 J	3300	ND	1500
1,1,2-Trichloroethane		UG/KG	ND	750	ND	690	ND	3300	ND	1500

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 01/12/2004
Time: 13:44:16

SLC Environmental
Buell Automotive - Rochester
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN1246

Client ID	Lab ID	BFC 147-25 A04-0007 01/02/2004	A4000701	BFC 527-25 A04-0007 01/02/2004	A4000702	PRICE 2009 A04-0007 01/02/2004	A4000705	PRICE 2011 A04-0007 01/02/2004	A4000708
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	ND	750	ND	690	ND	3300	ND	1500
Trichloroethene	UG/KG	ND	750	ND	690	ND	3300	ND	1500
Vinyl acetate	UG/KG	1700	750	6000	690	110000	3300	53000	1500
Vinyl chloride	UG/KG	ND	3700	ND	3400	ND	16000	ND	7300
Total Xylenes	UG/KG	ND	1500	ND	1400	ND	6600	ND	2900
IS/SURROGATE(S)	UG/KG	ND	2200	ND	2100	ND	9800	2900 J	4400
Chlorobenzene-D5	%	97	50-200	98	50-200	100	50-200	98	50-200
1,4-Difluorobenzene	%	98	50-200	98	50-200	99	50-200	98	50-200
1,4-Dichlorobenzene-D4	%	98	50-200	98	50-200	98	50-200	99	50-200
Toluene-D8	%	117	71-125	117	71-125	117	71-125	119	71-125
p-Bromofluorobenzene	%	106	68-124	106	68-124	106	68-124	108	68-124
1,2-Dichloroethane-D4	%	104	61-136	105	61-136	104	61-136	104	61-136

10/34

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 01/12/2006
Time: 13:44:16

SLC Environmental
Buell Automotive - Rochester
METHOD 8260 - TCL VOLATILE ORGANICS

Rept. 1246

Client ID Job No Sample Date	Lab ID	PRICE 2013 A04-0007 01/02/2004	A4000704	PRICE 2018 A04-0007 01/02/2004	A4000709	PRICE 3003 A04-0007 01/02/2004	A4000710	PRICE 3005 A04-0007 01/02/2004	A4000703
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	18000	ND	33000	ND	3400	ND	84000
Benzene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Bromodichloromethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Bromoform	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Bromomethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
2-Butanone	UG/KG	ND	18000	ND	33000	ND	3400	ND	84000
Carbon disulfide	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Carbon Tetrachloride	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Chlorobenzene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Chloroethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Chloroform	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Chloromethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Cyclohexane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,2-Dibromoethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Dibromochloromethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,2-Dibromo-3-chloropropane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,2-Dichlorobenzene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,3-Dichlorobenzene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,4-Dichlorobenzene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Dichlorodifluoromethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,1-Dichloroethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,2-Dichloroethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,1-Dichloroethene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
cis-1,2-Dichloroethene	UG/KG	4600	3600	4000 J	6600	ND	670	ND	17000
trans-1,2-Dichloroethene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,2-Dichloropropane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
cis-1,3-Dichloropropene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
trans-1,3-Dichloropropene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Ethylbenzene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
2-Hexanone	UG/KG	ND	18000	ND	33000	470 J	670	ND	17000
Isopropylbenzene	UG/KG	ND	3600	ND	6600	ND	3400	ND	84000
Methyl acetate	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Methylcyclohexane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Methylene chloride	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
4-Methyl-2-pentanone	UG/KG	ND	18000	ND	33000	ND	3400	ND	84000
Methyl tert butyl ether	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Styrene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,1,2,2-Tetrachloroethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Tetrachloroethene	UG/KG	730 J	3600	ND	6600	ND	670	ND	17000
Toluene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,2,4-Trichlorobenzene	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,1,1-Trichloroethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000
1,1,2-Trichloroethane	UG/KG	ND	3600	ND	6600	ND	670	ND	17000

11/34

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID	Lab ID	Units	PRICE 2013 A04-0007 01/02/2004	A4000704	PRICE 2018 A04-0007 01/02/2004	A4000709	PRICE 3003 A04-0007 01/02/2004	A4000710	PRICE 3005 A04-0007 01/02/2004	A4000703
Job No	Sample Date	Analyte	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor		UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Trichlorofluoromethane		UG/KG	ND	3600	ND	6600	ND	670	ND	17000
Trichloroethene		UG/KG	120000	3600	190000	6600	3700	670	590000	17000
Vinyl acetate		UG/KG	ND	18000	ND	33000	ND	3400	ND	84000
Vinyl chloride		UG/KG	ND	7300	ND	13000	ND	1300	ND	34000
Total Xylenes		UG/KG	2800 J	11000	ND	20000	2000	2000	ND	50000
IS/SURROGATE(S)										
Chlorobenzene-D5		%	98	50-200	101	50-200	104	50-200	99	50-200
1,4-Difluorobenzene		%	98	50-200	100	50-200	104	50-200	99	50-200
1,4-Dichlorobenzene-D4		%	98	50-200	100	50-200	103	50-200	98	50-200
Toluene-D8		%	117	71-125	117	71-125	119	71-125	116	71-125
p-Bromofluorobenzene		%	106	68-124	106	68-124	107	68-124	106	68-124
1,2-Dichloroethane-D4		%	105	61-136	103	61-136	106	61-136	104	61-136

Date: 01/12/2004
Time: 13:44:16

SLC Environmental
Suell Automotives - Rochester
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: MW1246

13/34

Client ID Job No Sample Date	Lab ID	Units	PRICE 3010 A04-0007 01/02/2004	A4000706	PRICE 3014 A04-0007 01/02/2004	A4000707	PRICE X-3 A04-0007 01/02/2004	A4000711	Sample Value	Reporting Limit
Acetone		UG/KG	ND	3700	ND	7200	ND	3600	NA	
Benzene		UG/KG	ND	750	ND	1400	ND	710	NA	
Bromodichloromethane		UG/KG	ND	750	ND	1400	ND	710	NA	
Bromoform		UG/KG	ND	750	ND	1400	ND	710	NA	
Bromomethane		UG/KG	ND	750	ND	1400	ND	710	NA	
2-Butanone		UG/KG	ND	3700	ND	7200	ND	3600	NA	
Carbon Disulfide		UG/KG	ND	750	ND	1400	ND	710	NA	
Carbon Tetrachloride		UG/KG	ND	750	ND	1400	ND	710	NA	
Chlorobenzene		UG/KG	ND	750	ND	1400	ND	710	NA	
Chloroethane		UG/KG	ND	750	ND	1400	ND	710	NA	
Chloroform		UG/KG	ND	750	ND	1400	ND	710	NA	
Chloromethane		UG/KG	ND	750	ND	1400	ND	710	NA	
Cyclohexane		UG/KG	ND	750	ND	1400	ND	710	NA	
1,2-Dibromomethane		UG/KG	ND	750	ND	1400	ND	710	NA	
Dibromochloromethane		UG/KG	ND	750	ND	1400	ND	710	NA	
1,2-Dibromo-3-chloropropane		UG/KG	ND	750	ND	1400	ND	710	NA	
1,2-Dichlorobenzene		UG/KG	ND	750	ND	1400	ND	710	NA	
1,3-Dichlorobenzene		UG/KG	ND	750	ND	1400	ND	710	NA	
1,4-Dichlorobenzene		UG/KG	ND	750	ND	1400	ND	710	NA	
Dichlorodifluoromethane		UG/KG	ND	750	ND	1400	ND	710	NA	
1,1-Dichloroethane		UG/KG	ND	750	ND	1400	ND	710	NA	
1,2-Dichloroethane		UG/KG	ND	750	ND	1400	ND	710	NA	
1,1-Dichloroethene		UG/KG	ND	750	ND	1400	ND	710	NA	
cis-1,2-Dichloroethene		UG/KG	ND	750	520 J	1400	ND	710	NA	
trans-1,2-Dichloroethene		UG/KG	ND	750	ND	1400	ND	710	NA	
1,2-Dichloropropane		UG/KG	ND	750	ND	1400	ND	710	NA	
cis-1,3-Dichloropropene		UG/KG	ND	750	ND	1400	ND	710	NA	
trans-1,3-Dichloropropene		UG/KG	ND	750	ND	1400	ND	710	NA	
Ethylbenzene		UG/KG	ND	750	ND	1400	ND	710	NA	
2-Hexanone		UG/KG	ND	3700	ND	7200	ND	3600	NA	
Isopropylbenzene		UG/KG	ND	750	ND	1400	ND	710	NA	
Methyl acetate		UG/KG	ND	750	ND	1400	ND	710	NA	
Methylcyclohexane		UG/KG	ND	750	ND	1400	ND	710	NA	
Methylene chloride		UG/KG	ND	750	ND	1400	ND	710	NA	
4-Methyl-2-pentanone		UG/KG	ND	3700	ND	7200	ND	3600	NA	
Methyl tert butyl ether		UG/KG	ND	750	ND	1400	ND	710	NA	
Styrene		UG/KG	ND	750	ND	1400	ND	710	NA	
1,1,2,2-Tetrachloroethane		UG/KG	ND	750	320 J	1400	ND	710	NA	
Tetrachloroethane		UG/KG	ND	750	ND	1400	ND	710	NA	
Toluene		UG/KG	ND	750	ND	1400	ND	710	NA	
1,2,4-Trichlorobenzene		UG/KG	ND	750	ND	1400	ND	710	NA	
1,1,1-Trichloroethane		UG/KG	ND	750	ND	1400	ND	710	NA	
1,1,2-Trichloroethane		UG/KG	ND	750	ND	1400	ND	710	NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 01/12/2004
Time: 13:44:16

SLC Environmental
Buell Automotive - Rochester
METHOD 8260 - TCL VOLATILE ORGANICS

Repl: AN1246

Client ID	Lab ID	PRICE 3010	A4000706	PRICE 3014	A4000707	PRICE X-3	A4000711	Reporting Limit	Sample Value	Reporting Limit
Job No		A04-0007		A04-0007		A04-0007				
Sample Date		01/02/2004		01/02/2004		01/02/2004				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	750	ND	1400	ND	710	NA		
Trichlorofluoromethane	UG/KG	ND	750	ND	1400	ND	710	NA		
Trichloroethene	UG/KG	600 J	750	56000	1400	2100	710	NA		
Vinyl acetate	UG/KG	ND	3700	ND	7200	ND	3600	NA		
Vinyl chloride	UG/KG	ND	1500	ND	2900	ND	1400	NA		
Total Xylenes	UG/KG	ND	2200	ND	4300	460 J	2100	NA		
= IS/SURROGATE(S)										
Chlorobenzene-D5	%	103	50-200	99	50-200	106	50-200	NA		
1,4-Difluorobenzene	%	104	50-200	99	50-200	105	50-200	NA		
1,4-Dichlorobenzene-D4	%	102	50-200	99	50-200	106	50-200	NA		
Toluene-D8	%	118	71-125	116	71-125	116	71-125	NA		
p-Bromofluorobenzene	%	106	68-124	106	68-124	105	68-124	NA		
1,2-Dichloroethane-D4	%	106	61-136	103	61-136	105	61-136	NA		

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NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 01/12/2004
Time: 13:44:16

SLC Environmental
Buell Automotive - Rochester
METHOD 8260 - TCLP VOLATILES

Rept: m1246

Client ID	Lab ID	BFC 147-25 A04-0007 01/02/2004	BFC 527-25 A04-0007 01/02/2004	A4000701	PRICE 2009 A04-0007 01/02/2004	A4000705	PRICE 2009 DL A04-0007 01/02/2004	A4000705DL
Analyte	Units	Sample Value	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	MG/L	ND	ND	0.050	ND	0.050	ND	0.10
2-Butanone	MG/L	ND	ND	0.25	ND	0.25	ND	0.50
Carbon Tetrachloride	MG/L	ND	ND	0.050	ND	0.050	ND	0.10
Chlorobenzene	MG/L	ND	ND	0.050	ND	0.050	ND	0.10
Chloroform	MG/L	ND	ND	0.050	ND	0.050	ND	0.10
1,2-Dichloroethane	MG/L	ND	ND	0.050	ND	0.050	ND	0.10
1,1-Dichloroethene	MG/L	ND	ND	0.050	ND	0.050	ND	0.10
Tetrachloroethene	MG/L	ND	ND	0.050	ND	0.050	ND	0.10
Trichloroethene	MG/L	0.24	1.7	0.050	2.2 E	0.050	2.0 D	0.10
Vinyl chloride	MG/L	ND	ND	0.050	ND	0.050	ND	0.10
IS/SURROGATE(S)								
Chlorobenzene-D5	%	98	100	50-200	99	50-200	99	50-200
1,4-Difluorobenzene	%	108	110	50-200	109	50-200	99	50-200
1,4-Dichlorobenzene-D4	%	92	92	50-200	91	50-200	97	50-200
Toluene-D8	%	118	118	77-122	118	77-122	118	77-122
p-Bromofluorobenzene	%	104	105	74-120	104	74-120	106	74-120
1,2-Dichloroethane-D4	%	111	110	73-136	111	73-136	112	73-136

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NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID Job No Sample Date	Lab ID	PRICE 2011 A04-0007 01/02/2004	A4000708	PRICE 2013 A04-0007 01/02/2004	A4000704	PRICE 2013 PL A04-0007 01/02/2004	A4000704DL	PRICE 2018 A04-0007 01/02/2004	A4000709
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	MG/L	ND	0.050	ND	0.050	ND	0.10	ND	0.050
2-Butanone	MG/L	ND	0.25	ND	0.25	ND	0.50	ND	0.25
Carbon Tetrachloride	MG/L	ND	0.050	ND	0.050	ND	0.10	ND	0.050
Chlorobenzene	MG/L	ND	0.050	ND	0.050	ND	0.10	ND	0.050
Chloroform	MG/L	ND	0.050	ND	0.050	ND	0.10	ND	0.050
1,2-dichloroethane	MG/L	ND	0.050	ND	0.050	ND	0.10	ND	0.050
1,1-dichloroethene	MG/L	ND	0.050	ND	0.050	ND	0.10	ND	0.050
Tetrachloroethene	MG/L	ND	0.050	ND	0.050	ND	0.10	ND	0.050
Trichloroethene	MG/L	1.2	0.050	2.0 E	0.050	1.9 0	0.10	6.5 E	0.050
Vinyl chloride	MG/L	ND	0.050	ND	0.050	ND	0.10	ND	0.050
---IS/SURROGATE(S)---									
Chlorobenzene-D5	%	98	50-200	100	50-200	98	50-200	98	50-200
1,4-Difluorobenzene	%	108	50-200	111	50-200	98	50-200	108	50-200
1,4-Dichlorobenzene-D4	%	92	50-200	92	50-200	97	50-200	91	50-200
Toluene-D8	%	119	77-122	119	77-122	118	77-122	118	77-122
p-Bromofluorobenzene	%	105	74-120	104	74-120	107	74-120	104	74-120
1,2-Dichloroethane-D4	%	111	73-136	110	73-136	112	73-136	110	73-136

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Buell Automotive - Rochester
METHOD 8260 - TCLP VOLATILES

Rept: AM1246

Client ID Job No Sample Date	Lab ID	Units	PRICE 2018 DL A04-0007 01/02/2004	PRICE 3003 A04-0007 01/02/2004	A4000710	PRICE 3005 A04-0007 01/02/2004	A4000703	PRICE 3005 DL A04-0007 01/02/2004	A4000703DL
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	
Benzene	MG/L	0.25	ND	0.050	ND	0.050	ND	0.25	
2-Butanone	MG/L	1.2	ND	0.25	ND	0.25	ND	1.2	
Carbon Tetrachloride	MG/L	0.25	ND	0.050	ND	0.050	ND	0.25	
Chlorobenzene	MG/L	0.25	ND	0.050	ND	0.050	ND	0.25	
Chloroform	MG/L	0.25	ND	0.050	ND	0.050	ND	0.25	
1,2-Dichloroethane	MG/L	0.25	ND	0.050	ND	0.050	ND	0.25	
1,1-Dichloroethene	MG/L	0.25	ND	0.050	ND	0.050	ND	0.25	
Tetrachloroethene	MG/L	0.25	ND	0.050	0.014 J	0.050	ND	0.25	
Trichloroethene	MG/L	0.25	6.3 D	0.050	7.2 E	0.050	7.4 D	0.25	
Vinyl chloride	MG/L	0.25	ND	0.050	ND	0.050	ND	0.25	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	50-200	103	50-200	99	50-200	100	50-200	
1,4-Difluorobenzene	%	50-200	103	50-200	99	50-200	110	50-200	
1,4-Dichlorobenzene-D4	%	50-200	102	50-200	97	50-200	93	50-200	
Toluene-D8	%	77-122	120	77-122	118	77-122	117	77-122	
p-Bromofluorobenzene	%	74-120	108	74-120	106	74-120	104	74-120	
1,2-Dichloroethane-D4	%	73-136	109	73-136	110	73-136	111	73-136	

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NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 01/12/2004
Time: 13:44:16

SLC Environmental
Buell Automotive - Rochester
METHOD 8260 - TCLP VOLATILES

Rept: AN1246

Client ID Job No Sample Date	Lab ID	Units	PRICE 3010 A04-0007 01/02/2004	A4000706	PRICE 3014 A04-0007 01/02/2004	A4000707	PRICE X-3 A04-0007 01/02/2004	A4000711	Reporting Limit	Sample Value	Reporting Limit
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit			
Benzene		MG/L	ND	0.050	ND	0.050	ND	0.050		NA	
2-Butanone		MG/L	ND	0.25	ND	0.25	ND	0.25		NA	
Carbon Tetrachloride		MG/L	ND	0.050	ND	0.050	ND	0.050		NA	
Chlorobenzene		MG/L	ND	0.050	ND	0.050	ND	0.050		NA	
Chloroform		MG/L	ND	0.050	ND	0.050	ND	0.050		NA	
1,2-Dichloroethane		MG/L	ND	0.050	ND	0.050	ND	0.050		NA	
1,1-Dichloroethene		MG/L	ND	0.050	ND	0.050	ND	0.050		NA	
Tetrachloroethene		MG/L	ND	0.050	ND	0.050	ND	0.050		NA	
Trichloroethene		MG/L	0.070	0.050	1.1	0.050	0.024 J	0.050		NA	
Vinyl chloride		MG/L	ND	0.050	ND	0.050	ND	0.050		NA	
IS/SURROGATE(S)											
Chlorobenzene-05		%	99	50-200	98	50-200	101	50-200		NA	
1,4-Difluorobenzene		%	99	50-200	107	50-200	100	50-200		NA	
1,4-Dichlorobenzene-D4		%	98	50-200	91	50-200	99	50-200		NA	
Toluene-D8		%	118	77-122	118	77-122	117	77-122		NA	
p-Bromofluorobenzene		%	106	74-120	104	74-120	103	74-120		NA	
1,2-Dichloroethane-D4		%	112	73-136	112	73-136	109	73-136		NA	

Chronology and QC Summary Package

Date: 01/12/2004
Time: 13:44:40

SLC Environmental
Buell Automotives - Rochester
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN1246

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Client ID Job No Sample Date	Lab ID	Method Blank(VBLK22) A4000717	Method Blank(VBLK23) A4000719	Method Blank(VBLK24) A4000721	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Acetone	UG/KG	ND	3100	ND	3100	ND	3100	NA
Benzene	UG/KG	ND	620	ND	620	ND	620	NA
Bromodichloromethane	UG/KG	ND	620	ND	620	ND	620	NA
Bromoform	UG/KG	ND	620	ND	620	ND	620	NA
Bromomethane	UG/KG	ND	620	ND	620	ND	620	NA
2-Butanone	UG/KG	ND	3100	ND	3100	ND	3100	NA
Carbon Disulfide	UG/KG	ND	620	ND	620	ND	620	NA
Carbon Tetrachloride	UG/KG	ND	620	ND	620	ND	620	NA
Chlorobenzene	UG/KG	ND	620	ND	620	ND	620	NA
Chloroethane	UG/KG	ND	620	ND	620	ND	620	NA
Chloroform	UG/KG	ND	620	ND	620	ND	620	NA
Chloromethane	UG/KG	ND	620	ND	620	ND	620	NA
Cyclohexane	UG/KG	ND	620	ND	620	ND	620	NA
1,2-Dibromoethane	UG/KG	ND	620	ND	620	ND	620	NA
1,2-Dibromochloromethane	UG/KG	ND	620	ND	620	ND	620	NA
1,2-Dibromo-3-chloropropane	UG/KG	ND	620	ND	620	ND	620	NA
1,2-Dichlorobenzene	UG/KG	ND	620	ND	620	ND	620	NA
1,3-Dichlorobenzene	UG/KG	ND	620	ND	620	ND	620	NA
1,4-Dichlorobenzene	UG/KG	ND	620	ND	620	ND	620	NA
Dichlorodifluoromethane	UG/KG	ND	620	ND	620	ND	620	NA
1,1-Dichloroethane	UG/KG	ND	620	ND	620	ND	620	NA
1,2-Dichloroethane	UG/KG	ND	620	ND	620	ND	620	NA
1,1-Dichloroethene	UG/KG	ND	620	ND	620	ND	620	NA
cis-1,2-Dichloroethene	UG/KG	ND	620	ND	620	ND	620	NA
trans-1,2-Dichloroethene	UG/KG	ND	620	ND	620	ND	620	NA
1,2-Dichloropropane	UG/KG	ND	620	ND	620	ND	620	NA
cis-1,3-Dichloropropene	UG/KG	ND	620	ND	620	ND	620	NA
trans-1,3-Dichloropropene	UG/KG	ND	620	ND	620	ND	620	NA
Ethylbenzene	UG/KG	ND	620	ND	620	ND	620	NA
2-Hexanone	UG/KG	ND	3100	ND	3100	ND	3100	NA
Isopropylbenzene	UG/KG	ND	620	ND	620	ND	620	NA
Methyl acetate	UG/KG	ND	620	ND	620	ND	620	NA
Methylcyclohexane	UG/KG	ND	620	ND	620	ND	620	NA
Methylene chloride	UG/KG	ND	620	ND	620	ND	620	NA
4-Methyl-2-pentanone	UG/KG	ND	3100	ND	3100	ND	3100	NA
Methyl tert butyl ether	UG/KG	ND	620	ND	620	ND	620	NA
Styrene	UG/KG	ND	620	ND	620	ND	620	NA
1,1,2,2-Tetrachloroethane	UG/KG	ND	620	ND	620	ND	620	NA
Tetrachloroethene	UG/KG	ND	620	ND	620	ND	620	NA
Toluene	UG/KG	ND	620	ND	620	ND	620	NA
1,2,4-Trichlorobenzene	UG/KG	ND	620	ND	620	ND	620	NA
1,1,1-Trichloroethane	UG/KG	ND	620	ND	620	ND	620	NA
1,1,2-Trichloroethane	UG/KG	ND	620	ND	620	ND	620	NA

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 01/12/2006
Time: 13:44:40

SLC Environmental
Buell Automotive - Rochester
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: 01/12/06

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK22) A04-0007	Method Blank(VBLK23) A04-0007	Method Blank(VBLK24) A04-0007	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor		ND	ND	ND	620	ND	620	NA	
Trichlorofluoromethane		ND	ND	ND	620	ND	620	NA	
Trichloroethene		ND	ND	ND	620	ND	620	NA	
Vinyl acetate		ND	ND	ND	3100	ND	3100	NA	
Vinyl chloride		ND	ND	ND	1200	ND	1200	NA	
Total Xylenes		ND	ND	ND	1900	ND	1900	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5		101	98	100	50-200	100	50-200	NA	
1,4-Difluorobenzene		101	99	100	50-200	100	50-200	NA	
1,4-Dichlorobenzene-D4		100	98	97	50-200	97	50-200	NA	
Toluene-D8		118	119	118	71-125	118	71-125	NA	
p-Bromofluorobenzene		106	106	106	68-124	106	68-124	NA	
1,2-Dichloroethane-D4		109	107	105	61-136	105	61-136	NA	

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NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 01/12/2004
Time: 13:44:40

SLC Environmental
Buell Automotive - Rochester
METHOD 8260 - TCLP VOLATILES

Rept: AM1246

Client ID Job No Sample Date	Lab ID	Units	Extractor Blk Z-1209 A04-0007	Reporting Limit	Sample Value	Method Blank(VBLK21) A04-0007	Reporting Limit	Sample Value	Method Blank(VBLK22) A4000715	Reporting Limit	Sample Value	Reporting Limit
Benzene		MG/L	ND	0.050	ND	ND	0.0050	ND	0.0050	0.0050	NA	
2-Butanone		MG/L	ND	0.25	ND	ND	0.025	ND	0.025	0.025	NA	
Carbon Tetrachloride		MG/L	ND	0.050	ND	ND	0.0050	ND	0.0050	0.0050	NA	
Chlorobenzene		MG/L	ND	0.050	ND	ND	0.0050	ND	0.0050	0.0050	NA	
Chloroform		MG/L	ND	0.050	ND	ND	0.0050	ND	0.0050	0.0050	NA	
1,2-Dichloroethane		MG/L	ND	0.050	ND	ND	0.0050	ND	0.0050	0.0050	NA	
1,1-Dichloroethene		MG/L	ND	0.050	ND	ND	0.0050	ND	0.0050	0.0050	NA	
Tetrachloroethene		MG/L	ND	0.050	ND	ND	0.0050	ND	0.0050	0.0050	NA	
Trichloroethene		MG/L	ND	0.050	ND	ND	0.0050	ND	0.0050	0.0050	NA	
Vinyl chloride		MG/L	ND	0.050	ND	ND	0.0050	ND	0.0050	0.0050	NA	
IS/SURROGATE(S)												
Chlorobenzene-D5		%	99	50-200	100	100	50-200	101	50-200	50-200	NA	
1,4-Difluorobenzene		%	107	50-200	99	99	50-200	101	50-200	50-200	NA	
1,4-Dichlorobenzene-D4		%	92	50-200	97	97	50-200	100	50-200	50-200	NA	
Toluene-p8		%	118	77-122	115	115	77-122	118	77-122	77-122	NA	
p-Bromofluorobenzene		%	105	74-120	104	104	74-120	106	74-120	74-120	NA	
1,2-Dichloroethane-D4		%	112	73-136	118	118	73-136	109	73-136	73-136	NA	

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Client Sample ID: Method Blank(VBLK21) MSB21
 Lab Sample ID: A4000713 A4000714

Analyte	Units of Measure	Blank spike	Concentration spike Amount	% Recovery Blank spike	QC LIMITS
METHOD 8260 - TCLP VOLATILES					
Benzene	Mg/L	0.0558	0.0500	112	77-123
2-Butanone	Mg/L	0.257	0.250	103	64-139
Carbon Tetrachloride	Mg/L	0.0558	0.0500	112	75-128
chlorobenzene	Mg/L	0.0506	0.0500	101	77-121
Chloroform	Mg/L	0.0543	0.0500	109	75-126
1,2-Dichloroethane	Mg/L	0.0522	0.0500	104	74-126
1,1-Dichloroethene	Mg/L	0.0505	0.0500	101	66-142
Tetrachloroethene	Mg/L	0.0510	0.0500	102	77-120
Trichloroethene	Mg/L	0.0560	0.0500	112	77-123
Vinyl chloride	Mg/L	0.0512	0.0500	102	55-145

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank(VBLK22) #5822
 Lab Sample ID: A4000715 A4000716

Analyte	Units of Measure	Concentration		% Recovery/ Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
METHOD 8260 - TCLP VOLATILES					
Benzene	MG/L	0.0498	0.0500	100	77-123
2-Butanone	MG/L	0.228	0.250	91	64-139
Carbon Tetrachloride	MG/L	0.0493	0.0500	99	75-128
Chlorobenzene	MG/L	0.0493	0.0500	99	77-121
Chloroform	MG/L	0.0490	0.0500	98	75-126
1,2-Dichloroethane	MG/L	0.0461	0.0500	92	74-126
1,1-Dichloroethene	MG/L	0.0479	0.0500	96	66-142
Tetrachloroethene	MG/L	0.0476	0.0500	95	77-120
Trichloroethene	MG/L	0.0494	0.0500	99	77-123
Vinyl chloride	MG/L	0.0463	0.0500	93	55-145

Client Sample ID: Method Blank(VBLK22) MSB22

Lab Sample ID: A4000717 A4000718

Analyte	Units of Measure	Blank Spike	Concentration Spike Amount	% Recovery Blank spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/KG	5990	6250	96	65-146
Trichloroethene	UG/KG	6177	6250	99	74-127
Benzene	UG/KG	6231	6250	100	74-128
Toluene	UG/KG	6300	6250	101	74-123
Chlorobenzene	UG/KG	6166	6250	99	76-124

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Client Sample ID: Method Blank(VBLK23) MSB23
Lab Sample ID: A4000719 A4000720

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-dichloroethene	UG/KG	5179	6250	83	65-146
Trichloroethene	UG/KG	5965	6250	95	74-127
Benzene	UG/KG	6322	6250	101	74-128
Toluene	UG/KG	6346	6250	102	74-123
Chlorobenzene	UG/KG	6058	6250	97	76-124

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Client Sample ID: Method Blank(VBLK24) MSB24
Lab Sample ID: A4000721 A4000722

Analyte	Units of Measure	Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/KG	5843	6250	93	65-146
Trichloroethene	UG/KG	6660	6250	106	74-127
Benzene	UG/KG	6954	6250	111	74-128
Toluene	UG/KG	6966	6250	111	74-123
Chlorobenzene	UG/KG	6559	6250	105	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Date: 01/12/2004
Time: 13:45:09

Rept: AN1248
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SAMPLE CHRONOLOGY

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	BFC 147-25 A04-0007 A4000701	BFC 527-25 A04-0007 A4000702	PRICE 2009 A04-0007 A4000705	PRICE 2009 DL A04-0007 A4000705DL	PRICE 2011 A04-0007 A4000708
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	01/02/2004 01/02/2004 13:50 01/08/2004 23:33 - YES SOIL MED 1.0 GRAMS 4.02 82.98	01/02/2004 01/02/2004 13:50 01/09/2004 00:01 - YES SOIL MED 1.0 GRAMS 4.03 89.73	01/02/2004 01/02/2004 13:50 01/09/2004 12:33 - YES SOIL MED 5.0 GRAMS 4.01 95.03	NA	01/02/2004 01/02/2004 13:50 01/09/2004 13:28 - YES SOIL MED 2.0 GRAMS 4.08 83.76

METHOD 8260 - TCLP VOLATILES

Client Sample ID Job No & Lab Sample ID	BFC 147-25 A04-0007 A4000701	BFC 527-25 A04-0007 A4000702	PRICE 2009 A04-0007 A4000705	PRICE 2009 DL A04-0007 A4000705DL	PRICE 2011 A04-0007 A4000708
Sample Date Received Date TCLP Date/Time Extraction Date Analysis Date TCLP Extraction HT Met? Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/07/2004 15:33 YES - YES SOIL LOW 10.0 LITERS 0.005	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/07/2004 16:00 YES - YES SOIL LOW 10.0 LITERS 0.005	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/07/2004 17:23 YES - YES SOIL LOW 10.0 LITERS 0.005	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/08/2004 13:58 YES - YES SOIL LOW 20.0 LITERS 0.005	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/07/2004 18:45 YES - YES SOIL LOW 10.0 LITERS 0.005

NA = Not Applicable

STL Buffalo

Date: 01/12/2004
Time: 13:45:09

Rept: MW1248
Page: 2

SAMPLE CHRONOLOGY

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	PRICE 2013 A04-0007 A4000704	PRICE 2013 DL A04-0007 A4000704DL	PRICE 2018 A04-0007 A4000709	PRICE 2018 DL A04-0007 A4000709DL	PRICE 3003 A04-0007 A4000710
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	01/02/2004 01/02/2004 13:50 01/09/2004 12:06 - YES SOIL MED 5.0 GRAMS 4.0 GRAMS 85.81	NA	01/02/2004 01/02/2004 13:50 01/09/2004 13:55 - YES SOIL MED 10.0 GRAMS 4.2 GRAMS 89.64	NA	01/02/2004 01/02/2004 13:50 01/08/2004 20:23 - YES SOIL MED 1.0 GRAMS 4.11 GRAMS 90.73

METHOD 8260 - TCLP VOLATILES

Client Sample ID Job No & Lab Sample ID	PRICE 2013 A04-0007 A4000704	PRICE 2013 DL A04-0007 A4000704DL	PRICE 2018 A04-0007 A4000709	PRICE 2018 DL A04-0007 A4000709DL	PRICE 3003 A04-0007 A4000710
Sample Date Received Date TCLP Date/Time Extraction Date Analysis Date TCLP Extraction HT Met? Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/07/2004 16:55 YES - YES SOIL LOW 10.0 LITERS 0.005 LITERS	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/08/2004 13:50 YES - YES SOIL LOW 20.0 LITERS 0.005 LITERS	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/07/2004 19:12 YES - YES SOIL LOW 10.0 LITERS 0.005 LITERS	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/08/2004 15:48 YES - YES SOIL LOW 50.0 LITERS 0.005 LITERS	01/02/2004 01/02/2004 13:50 01/06/2004 10:00 01/08/2004 12:35 YES - YES SOIL LOW 10.0 LITERS 0.005 LITERS

NA = Not Applicable

STL Buffalo

Date: 01/12/2004
Time: 13:45:09

Rept: ANT248
Page: 3

SAMPLE CHRONOLOGY

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	PRICE 3005 A04-0007 A4000703	PRICE 3005 DL A04-0007 A4000703DL	PRICE 3010 A04-0007 A4000706	PRICE 3014 A04-0007 A4000707	PRICE X-3 A04-0007 A4000711
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	01/02/2004 13:50 01/02/2004 13:50 01/09/2004 11:38 - YES SOIL 25.0 4.02 92.77 MED GRAMS	NA	01/02/2004 13:50 01/02/2004 13:50 01/08/2004 18:34 - YES SOIL 1.0 4.04 82.91 MED GRAMS	01/02/2004 13:50 01/02/2004 13:50 01/09/2004 13:00 - YES SOIL 2.0 4.09 84.93 MED GRAMS	01/02/2004 13:50 01/02/2004 13:50 01/08/2004 20:51 - YES SOIL 1.0 4.13 84.74 MED GRAMS

METHOD 8260 - TCLP VOLATILES

Client Sample ID Job No & Lab Sample ID	PRICE 3005 A04-0007 A4000703	PRICE 3005 DL A04-0007 A4000703DL	PRICE 3010 A04-0007 A4000706	PRICE 3014 A04-0007 A4000707	PRICE X-3 A04-0007 A4000711
Sample Date Received Date TCLP Date/Time Extraction Date Analysis Date TCLP Extraction HT Met? Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	01/02/2004 13:50 01/02/2004 13:50 01/06/2004 10:00 01/07/2004 16:28 YES - YES SOIL 10.0 0.005 LOW LITERS	01/02/2004 13:50 01/02/2004 13:50 01/06/2004 10:00 01/08/2004 14:25 YES - YES SOIL 50.0 0.005 LOW LITERS	01/02/2004 13:50 01/02/2004 13:50 01/06/2004 10:00 01/08/2004 13:03 YES - YES SOIL 10.0 0.005 LOW LITERS	01/02/2004 13:50 01/02/2004 13:50 01/06/2004 10:00 01/07/2004 18:17 YES - YES SOIL 10.0 0.005 LOW LITERS	01/02/2004 13:50 01/02/2004 13:50 01/06/2004 10:00 01/08/2004 12:08 YES - YES SOIL 10.0 0.005 LOW LITERS

NA = Not Applicable

STL Buffalo

30/34

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Extractor Blk Z-1209 A04-0007 A4000712	Method Blank(VBLK21) A04-0007 A4000713	Method Blank(VBLK22) A04-0007 A4000715	Method Blank(VBLK22) A04-0007 A4000717	Method Blank(VBLK23) A04-0007 A4000719
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	01/08/2004 11:39 - SOIL MED 1.0 GRAMS 4.0 GRAMS 100.00	01/08/2004 23:06 - SOIL MED 1.0 GRAMS 4.0 GRAMS 100.00

METHOD 8260 - TCLP VOLATILES

Client Sample ID Job No & Lab Sample ID	Extractor Blk Z-1209 A04-0007 A4000712	Method Blank(VBLK21) A04-0007 A4000713	Method Blank(VBLK22) A04-0007 A4000715	Method Blank(VBLK22) A04-0007 A4000717	Method Blank(VBLK23) A04-0007 A4000719
Sample Date Received Date TCLP Date/Time Extraction Date Analysis Date TCLP Extraction HT Met? Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	01/07/2004 14:38 - SOIL LOW 10.0 LITERS 0.005	01/07/2004 12:59 - SOIL LOW 1.0 LITERS 0.005	01/08/2004 11:39 - SOIL LOW 1.0 LITERS 0.005	NA	NA

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Method Blank(VOLK24) A04-0007 A4000721				
Sample Date					
Received Date					
Extraction Date	01/09/2004 10:43				
Analysis Date	-				
Extraction HT Met?	-				
Analytical HT Met?	SOIL				
Sample Matrix	MED				
Dilution Factor	1.0				
Sample wt/vol	4.0				
% Dry	100.00				

Chain of Custody

Chain of Custody Record

STL-4124 (1/2000)



Sewern Trent Laboratories, Inc.

Client: SLE Environmental Project Manager: Keith Hambley Date: 1/2/04 Chain of Custody Number: 099890

Address: 295 Mill St Telephone Number (Area Code)/Fax Number: 585-865-5020 Lab Number: 865-5045

City: Lockport State: NY Zip Code: 14094 Lab Contact: Steve Page: 1 of 1

Project Name and Location (State): Bozell Environmental - Rochester NY Carrier/Waybill Number: _____

Contract/Purchase Order/Quote No.: _____

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		
BFC 147-25	1/2/04					X	X						8260	
BFC 527-25						X	X						8260	
BFC 3005						X	X							
BFC 2013						X	X							
BFC 2009						X	X							
BFC 3010						X	X							
BFC 3014						X	X							
BFC 2011						X	X							
BFC 2018						X	X							
BFC 3003						X	X							
BFC X-3						X	X							

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify): _____

1. Relinquished By: Steve Date: 1/2/04 Time: 11:00 AM 1. Received By: Steve Date: 01/02/04 Time: 1350

2. Relinquished By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____

Comments: _____

Appendix E

Waste Disposal Documentation

NYG 3974706

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS
HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple.

Hazardous Waste Manifest 1/23/03

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NY1000246629000006		Manifest Doc. No. 1		2. Page 1 of 1		Information within heavy bold line is not required by Federal Law.	
3. Generator's Name and Mailing Address BULL AUTOMATICS INC 391 BULL RD ROCHESTER NY 14624		4. Generator's Telephone Number (518) 328-7430		5. Generator's ID NYG 3974706		6. Generator's ID 391 BULL RD ROCHESTER NY 14624		7. State Transporter's ID AD25068NY	
5. Transporter 1 (Company Name) EMERSON		6. US EPA ID Number NY100046765574		7. Transporter's Telephone 716 255-5944		8. State Transporter's ID AD25068NY		9. Transporter's Telephone 716 255-5944	
7. Transporter 2 (Company Name) Buffalo Fuel Corp		8. US EPA ID Number NY10000045724		9. State Transporter's ID AD25068NY		10. Transporter's Telephone 716 677 0003		11. State Facility ID 716 754-8231	
9. Designated Facility Name and Site Address CUM- CHEMICAL SERVICES LLC 1550 BALFEN RD MORRIS C. VT NY 14107		10. US EPA ID Number NY10004918366718		11. Facility Telephone 716 754-8231		12. Containers Number Type Quantity 001 CM 001 15 T		13. Total Quantity 15 T	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) RD, HAZARDOUS WASTE SOLID, NOS, 9, NA3077, PG III		12. Containers Number Type Quantity 001 CM 001 15 T		13. Total Quantity 15 T		14. Unit Wt/Vol 15 T		15. Waste No. EPA FOOZ- STATE FOOZ- EPA FOOZ- STATE FOOZ- EPA FOOZ- STATE FOOZ-	
1. Additional Descriptions for Materials listed Above a. PROFILE CX1972		K. Handling Codes for Wastes Listed Above a. 2		b. FOOZ, D040		c. 2		d. 2	
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT CHEMTRAC 800-424-9300 MANIFEST DISCREPANCIES (518) 865-5020		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 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.		17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Joe Meyers Signature Joe Meyers Mo. 10 Day 20 Year 04		18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Mo. Day Year		19. Discrepancy Indication Space actual Recd 15020P	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name EILEEN CARTON Signature Eileen Carton Mo. 01 Day 20 Year 04									

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

582131
Receipt # 708136
Service Req. # C1972
Trailer License Plate # and State AD 25068 NY
Profile # 9A545
Permit # 7000/R28
Transporter Name Joe Meyers
Driver's Name Joe Meyers
Tractor/Trailer/Roll-off # Ruell
Generator

11:58 65080 LB G 2
01/20/04

13:34 50060 LB G 1

01/20/04 15020 P

Scheduled Arrival:

Actual Arrival: Date Time
Date Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Receiving:

Initials

Comments

Laboratory

Time In Time Out Initials Comments

Stabilization

Time In Time Out Initials Gross Wt. Comments

Landfill

Time In Time Out Initials Comments

Other

Time In Time Out Initials Comments

Aqueous Treatment

Time In Time Out Signature (NO Initials) Comments

Facility Personnel (please initial)

Smoking or eating in prohibited areas

Failure to obey instructions of facility personnel

Failure to wear appropriate PPE

Unsafe driving practices

Other (specify)

Leaving truck unattended

Failure to display overweight flag

Improper tarping or dewatering

Overweight upon arrival

Security Guard Initials:

(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

25
3974715

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

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



(Hazardous Waste Manifest 1/73/03)

or print. Do not staple

UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No. NYD0002466290	Manifest Doc. No. 00007	2. Page 1 of 1	Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address BULL AUTOMATICS INC 391 BULL RD ROCHESTER NY 14624		A. NYG 3974715	
4. Generator's Telephone Number (585) 328-7430		B. Generator's ID 391 BULL RD ROCHESTER NY	
5. Transporter 1 (Company Name) PROFESSIONAL		C. State Transporter's ID 37200 PA NY	
6. US EPA ID Number NYD000045724		D. Transporter's Telephone (716) 822-1414	
7. Transporter 2 (Company Name) Buffalo Fuel Corp		E. State Transporter's ID 37200 PA NY	
8. US EPA ID Number NYD000045724		F. Transporter's Telephone 8106 77 0072	
9. Designated Facility Name and Site Address CWM - CHEMICAL SERVICES LLC 1550 BALMAIN RD MADISON CITY NY 14107		G. State Facility ID 9	
10. US EPA ID Number 2 1/21 NYD00049936678		H. Facility Telephone (716) 754-2231	

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	1. Waste No. EPA STATE
a. RO. HAZARDOUS WASTE SOLID, NOS 9, NA 3077, PG III	001	CM	00015	T	EPA F002 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes listed Above	
a. PROFILE CX1972	c.	a. L	c.
b. F002, D040	d.	b.	d.

15. Special Handling Instructions and Additional Information
EMERGENCY CONTACT CHEMABEC 800-424-9300
MANIFEST DISCREPANCIES 585-865-5026
BOX #14725
CWM SERVICE #
708-136

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 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 GARY LAWTON	Signature <i>[Signature]</i>	Mo. 01	Day 24	Year 04

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name MICHAEL A. HANSAVER	Signature <i>[Signature]</i>	Mo. 01	Day 20	Year 04

18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name	Signature	Mo.	Day	Year

19. Discrepancy Indication Space actual Recd 23060P				

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.				
Printed/Typed Name EILEEN CARTON	Signature <i>[Signature]</i>	Mo. 01	Day 21	Year 04

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-6100



Transporter Log
CWM Chemical Services, Inc.
 Model City, NY

118913

25
 Cubic Yards

582146
 Receipt #
 708136 01/19/04
 Service Reg. # Profile # Permit #
 BFC 887R/147 (25)
 Transporter Name
 MIKE HALSAUER
 Driver's Name
 Generator
 37200 PA NY
 Trailer License Plate # and State
 9A-545
 Tractor/Trailer/Roll-off #
 BULL AUTOMOTIVE

05:32 60030 LB G 2
 01/21/04

08:09 36960 LB G 1
 01/21/04 23060P

Scheduled Arrival: _____

Actual Arrival: _____
 Date Time Date Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) _____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Receiving: 2
 Initials Comments

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas	_____ Leaving truck unattended
_____ Failure to obey instructions of facility personnel	_____ Failure to display overweight flag
_____ Failure to wear appropriate PPE	_____ Improper tarping or detarpin
_____ Unsafe driving practices	_____ Overweight upon arrival
_____ Other (specify) _____	

Security Guard Initials: _____
 (Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

NYG 3974697

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



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

Hazardous Waste Manifest 1/23/03

Type or print. Do not staple

In case of emergency or spill immediately call the National Response Center at (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>NYD00246629000009</i>		Manifest Doc. No. <i>1</i>		2. Page 1 of 1		Information within heavy bold line is not required by Federal Law.			
3. Generator's Name and Mailing Address <i>Buell Automatics Inc 381 Buell Rd Rochester NY 14624</i>						A. NYG 3974697					
4. Generator's Telephone Number (585) 328-7430						B. Generator's ID <i>381 Buell Rd</i>					
5. Transporter 1 (Company Name) <i>Price Trucking</i>						C. State Transporter's ID <i>89 43700 NE</i>					
6. US EPA ID Number <i>NYD0461765574</i>						D. Transporter's Telephone <i>716 822-7414</i>					
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 <i>Cwm Chemical Services LLC 1550 Bulmer Rd Model City NY 14107</i>						G. State Facility ID					
10. US EPA ID Number <i>NYD049836678</i>						H. Facility Telephone <i>716 754-8231</i>					
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number) <i>a. RQ Hazardous Waste Solid N.O.S. 9, NA 3077, P6II</i>						12. Containers Number Type <i>001 CM</i>		13. Total Quantity <i>500 LBS</i>		14. Unit Wt/Vol <i>T</i>	
										I. Waste No. EPA <i>F002</i> STATE	
										EPA STATE	
										EPA STATE	
										EPA STATE	
J. Additional Descriptions for Materials Listed Above <i>a. Profile CX 1972</i>						K. Handling Codes for Wastes Listed Above <i>a. L</i>					
<i>b. F002, D040</i>						<i>b.</i>					
15. Special Handling Instructions and Additional Information <i>Emergency Contact - chem truck 800-424-9360 Cwm Service # 709041 del 5:45</i> <i>Discrepancies 585-865-5020 8/15/82326</i>											
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 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. <i>Signature [Signature] Date 8/1/28</i>											
17. Transporter 1 Acknowledgement of Receipt of Materials <i>Printed/Typed Name Robert Pagan Signature [Signature] Date 10/17/04</i>											
18. Transporter 2 Acknowledgement of Receipt of Materials <i>Printed/Typed Name Signature Date</i>											
19. Discrepancy Indication Space <i>actual Recd 18980 P</i>											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. <i>Printed/Typed Name Eileen Carter Signature [Signature] Date 8/1/28</i>											

GENERATOR

TRANSPORTER

FACILITY



Transporter Log
CWM Chemical Services, Inc.
Model City, NY

115033

Cubic Yards

81582326

Receipt #

3442300 NE

Trailer License Plate # and State

Service Req. #

Profile #

Permit #

Price Trucking

8200 1700 X 3

Transporter Name

Tractor/Trailer/Roll-off #

Robert Regan

Buell Automation

Driver's Name

Generator

Scheduled Arrival:

Date

Time

Actual Arrival:

Date

Time In

Time Out

Arrived during Blackout? Y / N

Notified DEC? Y / N

Receiving:

Initials

Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In

Time Out

Initials

Comments

Stabilization

Time In

Time Out

Initials

Gross Wt.

Comments

Landfill

Time In

Time Out

Initials

Comments

Other

Time In

Time Out

Initials

Comments

Aqueous Treatment

Time In

Time Out

Signature (NO Initials)

Comments

Facility Personnel (please initial)

Smoking or eating in prohibited areas

Leaving truck unattended

Failure to obey instructions of facility personnel

Failure to display overweight flag

Failure to wear appropriate PPE

Improper tarping or detspin

Unsafe driving practices

Overweight upon arrival

Other (specify)

Security Guard Initials:

(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records

Green & Canary: Accis Rec.

Pink: Environmental

Goldenrod: Driver

G 3351393

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

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

Hazardous Waste Manifest (1/5/90)

ne or print. Do not staple

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NY 0002466290 000001		Manifest Doc. No.		2. Page 1 of 1		Information within heavy bold line is not required by Federal Law.	
3. Generator's Name and Mailing Address BUELL AUTOMATICS INC 331 BUELL RD ROCHESTER NY 14614						A. NYG 3351393			
4. Generator's Telephone Number (585) 328-7430						B. Generator's ID 331 BUELL RD ROCHESTER NY			
5. Transporter 1 (Company Name) PRICE TRUCKING				6. US EPA ID Number NY 00046765574		C. State Transporter's ID 41809PA NY			
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Telephone (716) 822-1414			
9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES LLC 1550 BALMER RD MOORE CITY NY 14107						E. State Transporter's ID			
10. US EPA ID Number NY 00049836678						F. Transporter's Telephone ()			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. RO. HAZARDOUS WASTE SOLID RES 7, NA3077, PG III						12. Containers Number Type 001 CMB		13. Total Quantity EST	
						14. Unit Wt/Vol 5 T		I. Waste No. EPA 0002 STATE	
b.								EPA STATE	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials Listed Above a. PROFILE CX1972						K. Handling Codes for Wastes Listed Above a. ☒ L ☐ c ☐			
b. 002. D040						b. ☐ d ☐			
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT CHEMTREC 800-424-9300 CWM SERVICE # 710339-1 MANIFEST DISCREPANCIES (585) 865-5070 91582537									
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 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 [Signature]				Signature [Signature]		Mo. Day Year [Signature]			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name JEFFREY P PRICE									
Signature [Signature]				Mo. Day Year 01 20 04					
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name									
Signature				Mo. Day Year					
19. Discrepancy Indication Space Items 16, 17 - Dates do not agree Actual Rec'd 22000 P									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Lynn Piechowski									
Signature Lynn Piechowski				Mo. Day Year 02 09 04					

COPY 1—Disposer State—Mailed by TSD Facility

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7777.

GENERATOR

TRANSPORTER

FACILITY



Transporter Log
CWM Chemical Services, Inc.
Model City, NY

119303

30 10
Cubic Yards

81582537

41009PA NY

Receipt #

Trailer License Plate # and State

710339-1

CX1972

9A-025

Service Req. #

Profile #

Permit #

PRICE TRUCKING

4000-3010

Transporter Name

Tractor/Trailer/Roll-off #

JEFF PRICE

BUELL AUTOMATICS

Driver's Name

Generator

07:00

58820 LB 0 2

02/09/04

09:53

36820 LB 0 1

02/09/04

22000P

Scheduled Arrival:

Actual Arrival: Date Time

Date Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Receiving: JP

Initials

Comments

Laboratory

Time In Time Out Initials Comments

Stabilization

Time In Time Out Initials Gross Wt. Comments

Landfill

Time In Time Out Initials Comments

Other

Time In Time Out Initials Comments

Aqueous Treatment

Time In Time Out Signature (NO Initials) Comments

Facility Personnel (please initial)

Smoking or eating in prohibited areas

Leaving truck unattended

Failure to obey instructions of facility personnel

Failure to display overweight flag

Failure to wear appropriate PPE

Improper tarping or detarpin

Unsafe driving practices

Overweight upon arrival

Other (specify)

Security Guard Initials:

(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records

Green & Canary: Accis Rec.

Pink: Environmental

Goldenrod: Driver

NYG3351402.

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS



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

(Hazardous Waste Manifest 1/5/93)

Seal or print. Do not staple

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>NYD0024662 90 00002</i>	Manifest Doc. No. <i>1</i>	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
3. Generator's Name and Mailing Address <i>Buell Automatics Inc 381 Buell Rd Rochester NY 14624</i>			A. NYG3351402		
4. Generator's Telephone Number <i>585 328-7430</i>			B. Generator's ID <i>381 Buell Rd</i>		
5. Transporter 1 (Company Name) <i>Price Trucking</i>		6. US EPA ID Number <i>NYD0046765574</i>		C. State Transporter's ID <i>41809 PANY</i>	
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Telephone <i>716 822-1414</i>	
9. Designated Facility Name and Site Address <i>CWM Chemical Services LLC 1550 Bulmer Rd Model City NY 1407</i>		10. US EPA ID Number <i>NYD0049836678</i>		E. State Transporter's ID	
				F. Transporter's Telephone ()	
				G. State Facility ID <i>24/04</i>	
				H. Facility Telephone <i>716 754-8231</i>	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number) <i>a. RQ Hazardous Waste Solid N.O.S. 9, NA 3077, P&TII</i>			12. Containers Number <i>0101</i>	Type <i>DR</i>	13. Total Quantity <i>00015</i>
					14. Unit Wt/Vol <i>T</i>
					I. Waste No. EPA <i>FC02</i>
					STATE
					EPA
					STATE
					EPA
					STATE
					EPA
					STATE
J. Additional Descriptions for Materials listed Above <i>Profile CX 1972</i>			K. Handling Codes for Wastes Listed Above <i>4</i>		
<i>FC02, DO40</i>			<i>4</i>		
15. Special Handling Instructions and Additional Information <i>Emergency Contact - Chemtrec - 800-424-9360 CWM service # Discrepancy - 585-865-5020 81582538 710339-2</i>					
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 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 <i>[Redacted]</i>		Signature <i>[Redacted]</i>		Mo. Day Year <i>[Redacted]</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <i>JEFFREY P PRICE</i>		Signature <i>[Signature]</i>	
				Mo. Day Year <i>01 20 04</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
				Mo. Day Year	
19. Discrepancy Indication Space <i>Items 16 & 17 - Dates do not agree Actual Rec'd 22040 P</i>					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name <i>Lynn Pechowski</i>		Signature <i>[Signature]</i>		Mo. Day Year <i>02 09 04</i>	

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7100



Transporter Log
CWM Chemical Services, Inc.
Model City, NY

113000

20
Cubic Yards

81582538

70004 NY

Receipt #

Trailer License, Plate # and State

710339-2

CX1972

9A-0250

Service Req. #

Profile #

Permit #

PRICE TRUCKING

3850-3042011

Transporter Name

Tractor/Trailer/Roll-off #

TEFF PRICE

BUELL AUTOMATICS

Driver's Name

Generator

07:01

35480 LB G 2

02/09/04

08:54

13440 LB G 1

02/09/04

220401

Scheduled Arrival:

Actual Arrival:

Date

Time

Date

Time-In

Time Out

Arrived during Blackout? Y / N

Notified DEC? Y / N

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In

Time Out

Initials

Comments

Stabilization

Time In

Time Out

Initials

Gross Wt.

Comments

Landfill

Time In

Time Out

Initials

Comments

Other

Time In

Time Out

Initials

Comments

Aqueous
Treatment

Time In

Time Out

Signature (NO Initials)

Comments

Facility Personnel (please initial)

Smoking or eating in prohibited areas

Leaving truck unattended

Failure to obey instructions of facility personnel

Failure to display overweight flag

Failure to wear appropriate PPE

Improper tarping or dewatering

Unsafe driving practices

Overweight upon arrival

Other (specify)

Security Guard Initials:

(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records

Green & Canary: Accts Rec.

Pink: Environmental

Goldenrod: Driver

NYG 3351411

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

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



(Hazardous Waste Manifest 1/5/96)

Use type or print. Do not staple

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD002466290 00003		Manifest Doc. No. 1		2. Page 1 of 1		Information within heavy bold line is not required by Federal Law.			
3. Generator's Name and Mailing Address Buell Automotives, Inc. 381 Buell Rd Rochester NY 14624				A. NYG 3351411							
4. Generator's Telephone Number (585) 328-7430				B. Generator's ID 381 Buell Rd							
5. Transporter 1 (Company Name) Price Trucking				C. State Transporter's ID 41809 PAM7							
6. US EPA ID Number NYD046765574				D. Transporter's Telephone (716) 822-1414							
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 Cwm Chemical Service LLC 1550 Adams Rd Model City NY 14107				G. State Facility ID							
10. US EPA ID Number NYD0049830678				H. Facility Telephone (716) 774-8231							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. RQ Hazardous Waste Solid N.O.S. 9, NA 3077, PGTT				12. Containers Number Type 001 CM 00015		13. Total Quantity at		14. Unit Wt/Vol T			
								I. Waste No. EPA F002			
								STATE			
								EPA			
								STATE			
								EPA			
								STATE			
								EPA			
								STATE			
J. Additional Descriptions for Materials listed Above a. Profile CX 1972				K. Handling Codes for Wastes Listed Above a. L							
b. F002, D040				b.							
15. Special Handling Instructions and Additional Information Emergency Contact Chemtree 800-424-9360				Cwm Service #							
Discrepancies 385-865-5020 81582589				710340-1							
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 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 JEFFREY J PRICE				Signature <i>[Signature]</i>		Mo. 10		Day 12		Year 2004	
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name JEFFREY J PRICE				Signature <i>[Signature]</i>		Mo. 10		Day 12		Year 2004	
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature		Mo.		Day		Year	
19. Discrepancy Indication Space Act. Rec. 31000 P											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name Michelle Fleck				Signature <i>[Signature]</i>		Mo. 02		Day 10		Year 04	

COPY 1—Disposer State—Mailed by TSD Facility



Transporter Log
CWM Chemical Services, Inc.
Model City, NY

119351

30
Cubic Yards

81582589

7000A4 NY

Receipt #

710340-1

Trailer License Plate # and State

CX1972

FA-025

Service Req. #

Profile #

Permit #

PRICE TRUCKING

3850-3014

Transporter Name

JEFF PRICE

Tractor/Trailer/Roll-off #

BULL AUTOMATICS

Driver's Name

Generator

07:46 44400 LB G 2

02/10/04

10:14 13400 LB G 1

02/10/04

Scheduled Arrival:

Actual Arrival: 653
Date _____ Time _____
Date _____ Time In _____ Time Out _____

31000 P
15.5T

Arrived during Blackout? Y / N Notified DEC? Y / N

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Receiving: MF

Initials

Comments

Laboratory

Time In _____ Time Out _____ Initials HZ Comments _____

Stabilization

Time In _____ Time Out _____ Initials _____ Gross Wt. _____ Comments _____

Landfill

Time In _____ Time Out _____ Initials _____ Comments _____

Other

Time In _____ Time Out _____ Initials _____ Comments _____

Aqueous
Treatment

Time In _____ Time Out _____ Signature (NO Initials) _____ Comments _____

Facility Personnel (please initial)

Smoking or eating in prohibited areas

Leaving truck unattended

Failure to obey instructions of facility personnel

Failure to display overweight flag

Failure to wear appropriate PPE

Improper tarping or detarpin

Unsafe driving practices

Overweight upon arrival

Other (specify _____)

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records

Green & Canary: Accs Rec.

Pink: Environmental

Goldenrod: Driver

NYG 3351429

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



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

(Hazardous Waste Manifest 1/5/89)

Use type or print. Do not staple

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>NY0002466290</i>	Manifest Doc. No. <i>00004</i>	2. Page 1 of <i>1</i>	Information within heavy bold line is not required by Federal Law.	
3. Generator's Name and Mailing Address <i>Buell Automation Inc 381 Buell Rd Richmond NY 14874</i>				A. NYG 3351429		
4. Generator's Telephone Number <i>585 328-7430</i>				B. Generator's ID <i>381 Buell Rd</i>		
5. Transporter 1 (Company Name) <i>Price Trucking</i>		6. US EPA ID Number <i>NY0046765574</i>		C. State Transporter's ID <i>41809PA NY</i>		
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Telephone <i>716 822-1414</i>		
9. Designated Facility Name and Site Address <i>Cwm Chemical Services LLC 1550 Babson Rd Model City NY 14107 NY00649836678</i>		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Telephone		
				G. State Facility ID		
				H. Facility Telephone <i>716 754-8231</i>		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) <i>a. Rd Hazardous Waste Solid, n.o.s. 9, NA-3077, P6 II</i>				12. Containers Number <i>001</i>	Type <i>CM</i>	13. Total Quantity <i>00015</i>
						14. Unit Wt/Vol <i>T</i>
						i. Waste No. EPA <i>FD02</i>
						STATE
						EPA
						STATE
						EPA
						STATE
						EPA
						STATE
J. Additional Descriptions for Materials listed Above <i>a. Profile CX 1972</i>				K. Handling Codes for Wastes Listed Above <i>2</i>		
<i>b. FD02, D040</i>						
15. Special Handling Instructions and Additional Information <i>Emergency Contact - Chemtrac - 800-414-9360 Cwm Service# 710340-2</i> <i>Discrepancies 585-865-5020 81583588</i>						
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 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 <i>[Signature]</i>		Signature <i>[Signature]</i>		Mo. Day Year <i>10/1/04</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name <i>TERREY & PRICE</i>		Signature <i>[Signature]</i>		Mo. Day Year <i>10/1/2004</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Mo. Day Year		
19. Discrepancy Indication Space <i>Oct-Pec 22960P</i>						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name <i>Michelle Fleck</i>		Signature <i>Michelle Fleck</i>		Mo. Day Year <i>02/1/04</i>		



Transporter Log
CWM Chemical Services, Inc.
Model City, NY

119530

30
Cubic Yards

81582588

41809 PANY

Receipt #

Trailer License Plate # and State

710340-2

CX1972

9A-025

Service Req. #

Profile #

Permit #

PRICE TRUCKING

4000-3003

Transporter Name

Tractor/Trailer/Roll-off #

JEFF PRICE

BUELL AUTOMATICS

Driver's Name

Generator

07:44

60760 LB G 2

02/10/04

10:12

37800 LB G 1

02/10/04

Scheduled Arrival:

Date

Time

Actual Arrival:

Date

Time In

Time Out

6:53

Arrived during Blackout? Y / N

Notified DEC? Y / N

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In

Time Out

Initials

Comments

Stabilization

Time In

Time Out

Initials

Gross Wt.

Comments

Landfill

Time In

Time Out

Initials

Comments

Other

Time In

Time Out

Initials

Comments

Aqueous Treatment

Time In

Time Out

Signature (NO Initials)

Comments

Facility Personnel (please initial)

Smoking or eating in prohibited areas

Leaving truck unattended

Failure to obey instructions of facility personnel

Failure to display overweight flag

Failure to wear appropriate PPE

Improper tarping or detarpin

Unsafe driving practices

Overweight upon arrival

Other (specify)

Security Guard Initials:

(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records

Green & Canary: Accs Rec.

Pink: Environmental

Goldenrod: Driver

NYG 3411648

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

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

(Hazardous Waste Manifest 1/5/99)

Please type or print. Do not staple

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD002466290		Manifest Doc. No. 11648		2. Page 1 of 1		Information within heavy bold line is not required by Federal Law.					
3. Generator's Name and Mailing Address Buell Automatics 381 Buell Rd Rochester, NY 14624						A. NYG 3411648							
4. Generator's Telephone Number 585 381-7430						B. Generator's ID NYD002466290							
5. Transporter 1 (Company Name) PAGE E.T.G. Inc.			6. US EPA ID Number NYD986969947			C. State Transporter's ID NY243487							
7. Transporter 2 (Company Name)			8. US EPA ID Number			D. Transporter's Telephone (800) 233-2126							
9. Designated Facility Name and Site Address GSI Environment Inc 855 Rue Pepin Sherbrooke, QC J1L2P8						E. State Transporter's ID							
10. US EPA ID Number 1146767646						F. Transporter's Telephone ()							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
a. Environmentally hazardous substance, solid, n.o.s. 9, UN3077,, III, (soil contaminated with b. chlorinated solvents)						001 CM		EST 36000		P		EPA STATE EPA STATE EPA STATE EPA STATE	
J. Additional Descriptions for Materials listed Above						K. Handling Codes for Wastes Listed Above							
a						a							
b						b							
15. Special Handling Instructions and Additional Information In case of emergency, call GSI 814-829-0101 CONTAINER # 2018													
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 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 K. H. A. D. C. L. A. N. T.						Signature K. H. A. D. C. L. A. N. T.						Mo. Day Year 02 12 04	
17. Transporter 1 Acknowledgement of Receipt of Materials						Mo. Day Year 02 12 04							
Printed/Typed Name William Janke						Signature William Janke						Mo. Day Year 02 12 04	
18. Transporter 2 Acknowledgement of Receipt of Materials						Mo. Day Year							
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						Signature						Mo. Day Year	

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

GENERATOR

TRANSPORTER

FACILITY

NYG 3411666

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

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

(Hazardous Waste Manifest 1/5/99)

Please type or print. Do not staple

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD002466290	Manifest Doc. No. 11666	2. Page 1 of 1	Information within heavy bold line is not required by Federal Law.	
3. Generator's Name and Mailing Address Buell Automatics 381 Buell Rd Rochester, NY 14624				A. NYG 3411666		
4. Generator's Telephone Number (585) 381-7430				B. Generator's ID NYD002466290		
5. Transporter 1 (Company Name) PAGE E.T.C. Inc.		6. US EPA ID Number NYD986969947		C. State Transporter's ID NY295487		
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Telephone (800) 233-2126		
9. Designated Facility Name and Site Address GSI Environment Inc 855 Rue Pepin Sherbrooke, QC J1L2P8		10. US EPA ID Number 1146767646		E. State Transporter's ID		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol
a. Environmentally hazardous substance, solid, n.o.s.		001 CM		36000		P
b. chlorinated solvents						
c.						
d.						
I. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above		
a.				a.		
b.				b.		
15. Special Handling Instructions and Additional Information In case of emergency, call GSI 814-829-0101 CONTAINER # 2009						
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 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 RICHARD C LAWTON		Signature <i>Richard C Lawton</i>		Mo. Day Year 10/2/12 12/4		
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name William Janke		Signature <i>William J. Janke</i>		Mo. Day Year 10/2/12 12/4		
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						
Signature		Mo. Day Year				

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

NYG 3411621

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

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

(Hazardous Waste Manifest 1/5/99)

Please type or print. Do not staple

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD002466290	Manifest Doc. No. 11621	2. Page 1 of 1	Information within heavy bold line is not required by Federal Law.
3. Generator's Name and Mailing Address Buell Automatics 381 Buell Rd Rochester, NY 14624			A. NYG 3411621		
4. Generator's Telephone Number (585) 381-7430		6. US EPA ID Number NYD986969947		B. Generator's ID NYD002466290	
5. Transporter 1 (Company Name) PAGE E.T.C. Inc.		7. Transporter 2 (Company Name)		C. State Transporter's ID NY245407	
9. Designated Facility Name and Site Address GSI Environment Inc 855 Rue Pepin Sherbrooke, QC J1L2P8		8. US EPA ID Number 1146767646		D. Transporter's Telephone 800-233-2126	
10. US EPA ID Number		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) Environmentally hazardous substance, solid, n.o.s. 9, UN3077, III, (soil contaminated with b. chlorinated solvents)		E. State Transporter's ID 800-233-2126	
12. Containers Number Type 001 CM		13. Total Quantity Est. 36000		F. Transporter's Telephone ()	
14. Unit Wi/Vol P		15. Special Handling Instructions and Additional Information In case of emergency, call GSI 814-839-0101		G. State Facility ID	
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 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.		17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name William Janke Signature <i>William Janke</i> Mo. Day Year 02 1 2004		K. Handling Codes for Wastes Listed Above a. ☐ b. ☐ c. ☐ d. ☐	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name <i>P</i> Signature <i>P</i> Mo. Day Year Mo. Day Year		19. Discrepancy Indication Space		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 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.	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name <i>P</i> Signature <i>P</i> Mo. Day Year Mo. Day Year		21. Facility Telephone ()		22. State Facility ID	

In case of emergency or spill, immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

GENERATOR

TRANSPORTER

FACILITY



855 Papin Street
Sherbrooke, Quebec J1L 2P8
Tel.: (819) 829-0101 / Fax: (819) 829-2717
E-mail: sherbrooke@galenv.ca

02905

WASTE TRANSPORTATION MANIFEST

CONTAMINATED ☒
NON CONTAMINATED ☐

CLIENT: CAPITAL ENVIRONNEMENTAL SERVICE PROJECT: 2004-05
DATE: 11/02/04 HOUR:

SHIPPER/LOADING:

NAME: BUELL AUTOMATICS
ADDRESS: 221, BUELL ROAD, ROCKY HILL N.Y.
TEL: 330-427-6782
CONTACT PERSON: LEO NICKS

CONSIGNEE/UNLOADING:

NAME: GSI ENVIRONNEMENT INC.
ADDRESS: 855 Papin Street, Sherbrooke, Quebec, J1L 2P8
TEL: (819) 829-0101
CONTACT PERSON: ROGER D'AMOUR

TRANSPORTER:

DRIVER: William S. Pooker
I.D. NUMBER:
TYPE OF TRUCK: combination
SIGNATURE: William S. Pooker
QUANTITY:
GROSS MASS: 79388 LBS
MASS OF TRUCK: 40388
NET MASS: 39000

SAMPLES FOR ANALYSIS:

YES ☐ NO ☐
SAMPLE NO.:

ORGANOLEPTIC OBSERVATIONS:

ODOR:
Light ☐ Average ☐ Persistent ☐
VISUAL:
Normal ☐ Abnormal ☐
COLOUR:

SOIL ☒SLUDGE ☐OTHER ☐

PHYSICAL CONDITION:

DRY ☐ HUMID ☐ MUDDY ☐

TYPE OF RESIDUE: (Description)

CLAY ☐

SAND ☐

GRAVEL ☐

WATER:

APPROX. VOLUME: CUBIC METERS

FREE PHASE: YES ☐ NO ☐

CONTAMINANT(S):

VOC ☐ Oil & Grease (Mineral) ☐

PAH ☐ Heavy Metals ☐

OTHERS: ☒ PCB 590 ppm

ACCEPTANCE AT RECEIVING SITE:

SIGNATURE: Line 505

DATE: 11/02/04

HOUR: 12:40

Liner: Yes ☒ No ☐

Trailer decontamination: Yes ☐ Y.I.

Weight slip: 210:12062

U.S. Manifest: 6145341652

Can. Manifest: 9139020-5

White: Administration

Green: Customer

Yellow: Project Manager

Pink: Transportation

Gold: MFC

NYG 3411657

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

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

Please type or print. Do not staple

(Replaces Waste Manifest 1000)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYG 3411657	Manifest Doc. No. 1	2. Page 2 of 1	Information within heavy bold line is not required by Federal Law.
3. Generator's Name and Mailing Address Paul Automation 381 Hoell Rd Rochester, NY 14624		A. NYG 3411657			
4. Generator's Telephone Number () 800 302-7430		B. Generator's ID			
5. Transporter 1 (Company Name) PAVE E.T.C. Inc		C. State Transporter's ID NY 15451			
6. Transporter 2 (Company Name)		D. Transporter's Telephone () 800 233-3136			
7. Designated Facility Name and Site Address OSI Environment Inc 855 Elm Pkwy Charlotte, NC 28226		E. State Transporter's ID			
8. US EPA ID Number 1346767646		F. Transporter's Telephone ()			
9. US EPA ID Number		G. State Facility ID			
10. US EPA ID Number		H. Facility Telephone ()			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol
a. Environmentally hazardous substances, solid, n.e.s.					
b. 9. UN3077, III. (solid contaminated with chlorinated solvents)					
c.					
d.					
1. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above			
a.		a.			
b.		b.			
15. Special Handling Instructions and Additional Information In case of emergency, call OSI 816-829-0101					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment 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 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		Signature		Mo. Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Mo. Day Year	
Printed/typed Name		Signature		Mo. Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Mo. Day Year	
Printed/typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space 39000 LBS					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/typed Name		Signature		Mo. Day Year	
Printed/typed Name		Signature		Mo. Day Year	

COPY 5—Generator—Mailed by TSD Facility

MANIFEST - MANIFESTE

This manifest contains information on all persons and property entering or leaving the United States. It is required by law and is subject to inspection by Customs and Border Protection.

A Consignor (Remettant) Expéditeur (Producteur)		Permit ID No. / No. d'ID autorisé	
Cargos (Items) / Noms des marchandises		NYD003466290	
Shipping address / Adresse postale		City / Ville	
381 BUELL ROAD ROCHESTER, NY 14624		Province	
Shipping the address / Adresse de l'expéditeur		Province	
381 BUELL ROAD ROCHESTER, NY 14624		NY	
City / Ville		Province	
ROCHESTER		NY	
Permit ID No. / No. d'ID autorisé		1146767646	
Address / Adresse		Province	
955 Rue Papad SHEGIMITE QC J1L2P1		Province	
Shipping the address / Adresse de l'expéditeur		Province	
835 Rue Papad		QC	
City / Ville		Province	
SHEGIMITE		QC	

B Carrier Transporteur		Permit ID No. / No. d'ID autorisé	
Cargos (Items) / Noms des marchandises		NYD003466290	
Address / Adresse		City / Ville	
2958 Franklin Ave. NY 11205		Province	
City / Ville		Province	
ROCHESTER		NY	
Permit ID No. / No. d'ID autorisé		1146767646	
Address / Adresse		Province	
955 Rue Papad SHEGIMITE QC J1L2P1		Province	
Shipping the address / Adresse de l'expéditeur		Province	
835 Rue Papad		QC	
City / Ville		Province	
SHEGIMITE		QC	

C Consignee (Receiver) Destinataire		Permit ID No. / No. d'ID autorisé	
Cargos (Items) / Noms des marchandises		NYD003466290	
Address / Adresse		City / Ville	
2958 Franklin Ave. NY 11205		Province	
City / Ville		Province	
ROCHESTER		NY	
Permit ID No. / No. d'ID autorisé		1146767646	
Address / Adresse		Province	
955 Rue Papad SHEGIMITE QC J1L2P1		Province	
Shipping the address / Adresse de l'expéditeur		Province	
835 Rue Papad		QC	
City / Ville		Province	
SHEGIMITE		QC	

Physical Description Description physique		Quantity Quantité	
5 ENVIROSYSTEMS HAZARDOUS WASTE 5000, N.Y.S.		N/A	
Weight Poids		Kg	
3000		9	
Volume Volume		m³	
3000		9	
Temperature Température		°C	
25		9	
Pressure Pression		kPa	
25		9	
Humidity Humidité		%	
25		9	
Wind speed Vitesse du vent		km/h	
25		9	
Wind direction Direction du vent		°	
25		9	
Rainfall Pluie		mm	
25		9	
Snowfall Neige		cm	
25		9	
Ice Glace		cm	
25		9	
Fog Brouillard		km	
25		9	
Thunder Tonnerre		mm	
25		9	
Lightning Foudre		mm	
25		9	
Hail Grêle		mm	
25		9	
Sleet Gelée		mm	
25		9	
Snow Neige		cm	
25		9	
Ice Glace		cm	
25		9	
Fog Brouillard		km	
25		9	
Thunder Tonnerre		mm	
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Lightning Foudre		mm	
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Hail Grêle		mm	
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Sleet Gelée		mm	
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Snow Neige		cm	
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Ice Glace		cm	
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Fog Brouillard		km	
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Thunder Tonnerre		mm	
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Lightning Foudre		mm	
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Ice Glace		cm	
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Hail Grêle		mm	
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Snow Neige		cm	
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Ice Glace		cm	
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Thunder Tonnerre		mm	
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Ice Glace		cm	
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Ice Glace		cm	
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Ice Glace		cm	
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Fog Brouillard		km	
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Fog Brouillard		km	
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Thunder Tonnerre		mm	
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Lightning Foudre		mm	
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Hail Grêle		mm	
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Sleet Gelée		mm	
25		9	
Snow Neige		cm	
25		9	
Ice Glace		cm	
25		9	
Fog Brouillard		km	
25		9	
Thunder Tonnerre		mm	
25		9	
Lightning Foudre		mm	
25		9	
Hail Grêle		mm	
25		9	

52644785

TICKET NUMBER



**CERTIFIED
AUTOMATED
TRUCK
SCALE**

CAT SCALE COMPANY
100 E. 10th St.
WALCOTT, SD 57070
(605) 284-2849
www.cat-scale.com

DATE

02/13/04

12200 LB

WEIGHT

WEIGHT MEASUREMENT

(IF APPLICABLE)

SCALE

CAT 100

24460 LB

WEIGHT

02/13/04

24460 LB

LOCATION

02/13/04

24460 LB

WEIGHT MEASUREMENT

02/13/04

24460 LB

WEIGHT MEASUREMENT

02/13/04

24460 LB

WEIGHT MEASUREMENT

02/13/04

24460 LB

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24460 LB

WEIGHT MEASUREMENT

02/13/04

24460 LB

WEIGHT MEASUREMENT

02/13/04

24460 LB

WEIGHT MEASUREMENT

02/13/04

24460 LB



855 Papin Street
Sherbrooke, Quebec J1L 2P8
Tel: (819) 829-0191 / Fax: (819) 829-2717
E-mail: sherbrooke@gsienv.ca

02298

WASTE TRANSPORTATION MANIFEST

CONTAMINATED ☒
NON CONTAMINATED ☐

CLIENT: CORPORA ENVIRONNEMENTALE SERVICE PROJECT PROJECT: 2004-05
DATE: 18/02/04 HOUR: 9:55

SHIPPER/LOADING:

NAME: QUEEN AUTOMATICS
ADDRESS: 301 QUEEN ROAD, ROCHESTER NY
TEL: 330-427-6789
CONTACT PERSON: LEO HILERS

CONSIGNEE/UNLOADING:

NAME: GSI ENVIRONNEMENT INC.
ADDRESS: 855 Papin Street, Sherbrooke, Quebec, J1L 2P8
TEL: (819) 829-0101
CONTACT PERSON: ROGER DUMAIS

TRANSPORTER:

Page ETC. INC.
DRIVER: William T. Janke
I.D. NUMBER: 5217
TYPE OF TRUCK: Container
SIGNATURE: William T. Janke
QUANTITY: 12,656 TC
GROSS MASS: 65300 LBS
MASS OF TRUCK: 55200 LBS
NET MASS: 10180 LBS

SOIL ☒SLUDGE ☐OTHER ☐

PHYSICAL CONDITION:

DRY ☐ HUMID ☐ MUDDY ☐

TYPE OF RESIDUE: (Description)

CLAY ☐SAND ☐GRAVEL ☐

SAMPLES FOR ANALYSIS:

YES ☐ NO ☐

SAMPLE NO.: _____

WATER:

APPROX. VOLUME: _____ CUBIC METERS

FREE PHASE: YES ☐ NO ☐

ORGANOLEPTIC OBSERVATIONS:

ODOR:

Light ☐ Average ☐ Persistent ☐

VISUAL:

Normal ☐ Abnormal ☐

COLOUR: _____

CONTAMINANT(S):

VOC ☐ Oil & Grease (Mineral) ☐PAH ☐ Heavy Metals ☐OTHERS: ☒ PCE

ACCEPTANCE AT RECEIVING SITE:

SIGNATURE: Eric GossDATE: 18/02/04HOUR: 9:55 AMLiner: Yes ☐ No ☐Trailer decontamination: Yes ☒# Weight slip: 52644754# U.S. Manifest: NYG 341648# Can. Manifest: 91390763

White: Administration

Green: Customer

Yellow: Project Manager

Pink: Transportation

Gold: MFC

NYG 3411648

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALSHAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

Hazardous Waste Manifest 10/00

Please type or print. Do not staple

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD002466290		Manifest Doc. No. 11648		2. Page 1 of 1		Information within heavy bold line is not required by Federal Law.	
3. Generator's Name and Mailing Address Small Automotives 301 Small Rd Rochester, NY 14624					NYG 3411648				
4. Generator's Telephone Number (516) 581-7430					B. Generator's ID NYD002466290				
5. Transporter 1 (Company Name) PAVE T.T.C. Inc.					C. State Transporter's ID NY245487				
7. Transporter 2 (Company Name)					D. Transporter's Telephone (505) 330-3124				
9. Designated Facility Name and Site Address OSI Environment Inc 835 Sun Pkwy Sharpsburg, QC J1L2P8					E. State Transporter's ID				
10. US EPA ID Number 1146767444					F. Transporter's Telephone ()				
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number) a. Environmentally hazardous substance, solid, a.e.m. P. UN3077, III, (oil contaminated with chlorinated solvents)					G. State Facility ID				
12. Containers					H. Facility Telephone ()				
Number					Type				
Quantity					T4. Unit				
Wt/Vol					I. Waste No.				
					EPA				
					STATE				
					EPA				
					STATE				
					EPA				
					STATE				
					EPA				
					STATE				
J. Additional Descriptions for Materials listed Above					K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information In case of emergency, call OSI 814-879-8101									
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 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: William Smith Signature: William Smith Mo. 10 Day 21 Year 2004									
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name: William Smith Signature: William Smith Mo. 10 Day 21 Year 2004									
18. Transporter 2 Acknowledgment 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: Signature: Mo. Day Year									

COPY 5 - Generator - Mailed by TSD Facility

In case of emergency or spill immediately call the National Response Center (800) 424-9802 and the NYS Department of Environmental Conservation (516) 457-7362

On campuses all across America, students are being educated about the importance of sexual health. They are learning about the risks of unprotected sex and the benefits of using condoms. They are also learning about the importance of getting tested for sexually transmitted infections (STIs) and the importance of getting vaccinated against HPV.

[illegible][illegible]

DE 04-1917 (1201)

Copy / Codice 2 (mean / verbal)

52644754
TICKET NUMBER
**CERTIFIED
AUTOMATED
TRUCK
SCALE**

 CAT SCALE COMPANY
P.O. BOX 880
WALCOTT, IA 52773
(563) 284-8263
www.cat-scale.com

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

"WEIGH WHAT WE SAY OR WE PAY"

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (toll free).
- 3) IMMEDIATELY send a copy of the citation, CAT Scale ticket, your name, company, address, and phone number to CAT Scale Company Attn: Operations Manager.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale.

DATE:	02/12/04	STEER AXLE	12220 lb
SCALE	CAT 199	DRIVE AXLE	24600 lb
LOCATION:	SUGAR CREEK	TRAILER AXLE	28880 lb
	I90 AND EXIT 42	GROSS WEIGHT	65700 lb
	BENEVA NY		

PUBLIC WEIGHMASTER'S
CERTIFICATE OF
WEIGHT & MEASURE

(IMPRINT SEAL HERE
(IF APPLICABLE))

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

COMPANY

Page

TRACTOR #

3905

TRAILER #

0907

FEES

WEIGHMASTER OR
WEIGHER SIGNATURE

B. Boyd

FULL WEIGH
TICKET #
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE

Can. 2015

© CAT SCALE COMPANY 2003

CUSTOMER COPY



855 Papin Street
Sherbrooke, Quebec J1L 2P8
Tel.: (819) 829-0101 / Fax: (819) 829-2717
E-mail: sherbrooke@gsienv.ca

02301

WASTE TRANSPORTATION MANIFEST

CONTAMINATED ☒NON CONTAMINATED ☐

CLIENT: CORPUS ENVIRONNEMENTAL SERVICE PROJECT: 3004-05
DATE: 21.02.04 HOUR: 1:30

SHIPPER/LOADING:

NAME: BUELL AUTOMATICS
ADDRESS: 251 BUELL ROAD, ROCHESTER NY
TEL.: 330-427-6789
CONTACT PERSON: LEO NICKS

CONSIGNEE/UNLOADING:

NAME: GSI ENVIRONNEMENT INC.
ADDRESS: 855 Papin Street, Sherbrooke, Quebec, J1L 2P8
TEL.: (819) 829-0101
CONTACT PERSON: ROGER NAMOURA

TRANSPORTER:

PAGE L.T.C INC
DRIVER: William T. Janke
I.D. NUMBER: 5217
TYPE OF TRUCK: Container
SIGNATURE: William T. Janke
QUANTITY: _____
GROSS MASS: 68700565
MASS OF TRUCK: 40388
NET MASS: 2832165
14,156 TC

SOIL ☒SLUDGE ☐OTHER ☐

PHYSICAL CONDITION:

DRY ☐ HUMID ☐ MUDDY ☐

TYPE OF RESIDUE: (Description)

CLAY ☐SAND ☐GRAVEL ☐

WATER:

APPROX. VOLUME: _____ CUBIC METERS

FREE PHASE: YES ☐ NO ☐

SAMPLES FOR ANALYSIS:

YES ☐ NO ☐

SAMPLE NO.: _____

ORGANOLEPTIC OBSERVATIONS:

ODOR:

Light ☐ Average ☐ Persistent ☐

VISUAL:

Normal ☐ Abnormal ☐

COLOUR: _____

CONTAMINANT(S):

VOC ☐ Oil & Grease (Mineral) ☐PAH ☐ Heavy Metals ☐OTHERS: ☒ PCE

ACCEPTANCE AT RECEIVING SITE:

SIGNATURE: Roger NamouraDATE: 21.02.04HOUR: 1:30 P.M.Liner: Yes ☒ No ☐

Trailer decontamination: Yes ☒ Y. 7
Initial

Weight slip: 59644767# U.S. Manifest: N.Y.G. 361621# Can. Manifest: 9132072-1

White: Administration

Green: Customer

Yellow: Project Manager

Pink: Transportation

Gold: MFC

NYG 3411621

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALSHAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 1-800)

Please type or print. Do not staple

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 2003444290	Manifest Doc. No. A16411	2. Page 1 of 1	Information within heavy bold line is not required by Federal Law.
3. Generator's Name and Mailing Address Small Automation 381 Small Rd Rochester, NY 14624			A. NYG 3411621		
4. Generator's Telephone Number (385) 361-7430			B. Generator's ID NYG 3411621		
5. Transporter 1 (Company Name) PARK E.T.C. Inc.			C. State Transporter's ID ALL 005401		
6. US EPA ID Number 2003444290			D. Transporter's Telephone 800 230-5126		
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 CSI Environment Inc 855 Roe Pkwy Shelburne, VT JILTP6			G. State Facility ID		
10. US EPA ID Number 1146747444			H. Facility Telephone		
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Containers Number Type	13. Total Quantity	14. Unit WL/Vol	I. Waste No.
a. Environmentally hazardous substances, solid, n.e.s.		9	000	000	EPA
b. 9, UN3077, III, (cell contaminated with					STATE
c. chlorinated solvents)					EPA
					STATE
					EPA
					STATE
					EPA
					STATE
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above			
a		a			
b		b			
15. Special Handling Instructions and Additional Information In case of emergency, call CESI 314-339-0101					
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 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 William J. Smith		Signature William J. Smith		Mo. Day Year 02 12 04	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature William J. Smith		Mo. Day Year 02 12 04	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Mo. Day Year	
19. Discrepancy Indication Space 28312 LMS					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name Is No. Mc Yves		Signature Is No. Mc Yves		Mo. Day Year 10 21 19 10 17	

COPY 5—Generator—Mailed by TSD Facility

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

MANIFEST - MANIFESTE

This Manifest must be filed with the appropriate authorities in the country of origin and the country of destination. It must be completed in the country of origin and the country of destination. It must be completed in the country of origin and the country of destination.

A Consignor (Générateur) Expéditeur (Producteur) Buell Automatics		Provincial ID No. / No. d'ID provincial NYD000466290	
Company name / Nom de l'entreprise Buell Automatics		City / Ville Rochester	
Address / Adresse 381 Buell Road Rochester, NY 14624		Province NY	
Shipping address / Adresse d'expédition 381 Buell Road		Provincial ID No. / No. d'ID provincial 14624	
City / Ville Rochester		Province NY	
Company name / Nom de l'entreprise Emment, Inc.		Provincial ID No. / No. d'ID provincial 14624	
Address / Adresse 855 Rue Pepin		Province QC	
Shipping address / Adresse d'expédition 855 Rue Pepin		Provincial ID No. / No. d'ID provincial 14624	
City / Ville Shelburne		Province QC	

B Carrier Transporteur Age ETC, Inc.		Provincial ID No. / No. d'ID provincial NYD00046629	
Company name / Nom de l'entreprise Age ETC, Inc.		City / Ville 275 Trembley Rd.	
Address / Adresse 275 Trembley Rd.		Province QC	
Shipping address / Adresse d'expédition 275 Trembley Rd.		Provincial ID No. / No. d'ID provincial 14624	
City / Ville Rochester		Province NY	

C Consignee (Destinataire) Destinataire (Client) NYD00046629		Provincial ID No. / No. d'ID provincial NYD00046629	
Company name / Nom de l'entreprise NYD00046629		City / Ville 275 Trembley Rd.	
Address / Adresse 275 Trembley Rd.		Province QC	
Shipping address / Adresse d'expédition 275 Trembley Rd.		Provincial ID No. / No. d'ID provincial 14624	
City / Ville Rochester		Province NY	

D Consignee (Destinataire) Destinataire (Client) NYD00046629		Provincial ID No. / No. d'ID provincial NYD00046629	
Company name / Nom de l'entreprise NYD00046629		City / Ville 275 Trembley Rd.	
Address / Adresse 275 Trembley Rd.		Province QC	
Shipping address / Adresse d'expédition 275 Trembley Rd.		Provincial ID No. / No. d'ID provincial 14624	
City / Ville Rochester		Province NY	

E Consignee (Destinataire) Destinataire (Client) NYD00046629		Provincial ID No. / No. d'ID provincial NYD00046629	
Company name / Nom de l'entreprise NYD00046629		City / Ville 275 Trembley Rd.	
Address / Adresse 275 Trembley Rd.		Province QC	
Shipping address / Adresse d'expédition 275 Trembley Rd.		Provincial ID No. / No. d'ID provincial 14624	
City / Ville Rochester		Province NY	

Copy / Copie 2 (green / vert)

Retained by Consignor (Générateur) - Gardé par l'expéditeur

NOT 04-917 (2001)

52644767

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY

P.O. BOX 030

WALCOTT, IA 52773

(563) 284-6253

www.cat-scale.com

141522

104266

DATE:

02/12/04

SCALE

CAT 199

LOCATION:

SUGAR CREEK

PUBLIC WEIGHMASTERS

190 AND EXIT 42

CERTIFICATE OF

GENEVA NY

WEIGHT & MEASURE

IMPRINT SEAL HERE
(IF APPLICABLE)

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

"WEIGH WHAT WE SAY OR WE PAY"

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
- (2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (toll free).
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale ticket, your name, company, address, and phone number to CAT Scale Company Attn: Operations Manager.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale.

STEER AXLE

12120 LB

DRIVE AXLE

26340 LB

TRAILER AXLE

30120 LB

* GROSS WEIGHT

68700 LB

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

COMPANY

Page

TRACTOR #

3905

TRAILER #

0907

FEE

1.00

WEIGHMASTER OR
WEIGHER SIGNATURE

Kelly Planner

FULL WEIGH
TICKET #

026417

DRIVER IN TRUCK UNLESS CHECKED HERE:

Can. 2013

© CAT SCALE COMPANY® 2003

CUSTOMER COPY

THANK YOU FOR
WEIGHING
ON
CAT
SCALE



855 Papin Street
Sherbrooke, Québec J1L 2P8
Tel.: (819) 829-0101 / Fax (819) 829-2717
E-mail: sherbrooke@gsienv.ca

02300

WASTE TRANSPORTATION MANIFEST

CONTAMINATED ☒
NON CONTAMINATED ☐

CLIENT: CEPIRE ENVIRONNEMENTAL SEPAK PROJECT: 2004-05
DATE: 20 / 09 / 04 HOUR: 3:45

SHIPPER/LOADING:

NAME: BUEL AUTOMATICS
ADDRESS: 351 BUEL ROAD, ROXBOROUGH, N.Y.
TEL.: 330-427-6789
CONTACT PERSON: LEO NICKS

CONSIGNEE/UNLOADING:

NAME: GSI ENVIRONNEMENT INC.
ADDRESS: 855 Papin Street, Sherbrooke, Québec, J1L 2P8
TEL.: (819) 829-0101
CONTACT PERSON: ROGER D'AMOUR

TRANSPORTER:

William T. Tarke
DRIVER: Ray E.T.C. Inc.
I.D. NUMBER: 5212
TYPE OF TRUCK: William T. Tarke
SIGNATURE: William T. Tarke
QUANTITY: 13,426 TC
GROSS MASS: 68,740 Lbs 18960 Kg
MASS OF TRUCK: 6280 Kg
NET MASS: 12120 Kg (26721 Lbs)

SAMPLES FOR ANALYSIS:

YES ☐ NO ☐
SAMPLE NO.:

ORGANOLEPTIC OBSERVATIONS:

ODOR:
Light ☐ Average ☐ Persistent ☐
VISUAL:
Normal ☐ Abnormal ☐
COLOUR:

SOIL ☒ SLUDGE ☐

OTHER ☐

PHYSICAL CONDITION:

DRY ☐ HUMID ☐ MUDDY ☐

TYPE OF RESIDUE: (Description)

CLAY ☐SAND ☐GRAVEL ☐

WATER:

APPROX. VOLUME: CUBIC METERS

FREE PHASE: YES ☐ NO ☐

CONTAMINANT(S):

VOC ☐ Oil & Grease (Mineral) ☐PAH ☐ Heavy Metals ☐OTHERS: ☒ PCB

ACCEPTANCE AT RECEIVING SITE:

SIGNATURE: [Signature]DATE: 20/09/04HOUR: 3:45Liner: Yes ☐ No ☐Trailer decontamination: Yes ☐

Initials

Weight slip:

U.S. Manifest: NY 6341166# Can. Manifest: 9139073-9

White: Administration

Green: Customer

Yellow: Project Manager

Pink: Transportation

Gold: MFC

NYG 3411666

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALSHAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

Hazardous Waste Manifest (600)

Please type or print. Do not staple

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NY00002466290	Manifest Doc. No. 11446	2. Page 1 of 1	Information within heavy bold line is not required by Federal Law.
3. Generator's Name and Mailing Address Small Automotives 381 Small Rd Rochester, NY 14626		A. NYG 3411666			
4. Generator's Telephone Number 920 341-7430	5. Transporter 1 (Company Name) PAGE E.T.C. Inc.	6. US EPA ID Number NY00002466290	B. Generator's ID		
7. Transporter 2 (Company Name)	8. US EPA ID Number	C. State Transporter's ID NY00002466290			
9. Designated Facility Name and Site Address ONE Environment Inc 855 New Paltz Chatham, NY 12024	10. US EPA ID Number 11446	D. Transporter's Telephone 920 341-7430			
		E. State Transporter's ID			
		F. Transporter's Telephone			
		G. State Facility ID			
		H. Facility Telephone			
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Containers Number Type	13. Total Quantity	14. Unit wt/vol	I. Waste No.
a. Environmentally hazardous substance, solid, n.o.s. 9, UN3077, XII, (soil contaminated with chlorinated solvents)		0 0 3 0 0	3	0.00	EPA STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above			
a.		a.			
b.		b.			
15. Special Handling Instructions and Additional Information In case of emergency, call ONE 814-829-0101					
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 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 William E. Jones		Signature <i>William E. Jones</i>		Mo. Day Year 11/21/04	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name William E. Jones			
		Signature <i>William E. Jones</i>			
		Mo. Day Year 10/21/04			
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name			
		Signature			
		Mo. Day Year			
19. Discrepancy Indication Space 12170 10 126 8534053					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name Joseph M. Jones		Signature <i>Joseph M. Jones</i>		Mo. Day Year 10/21/04	

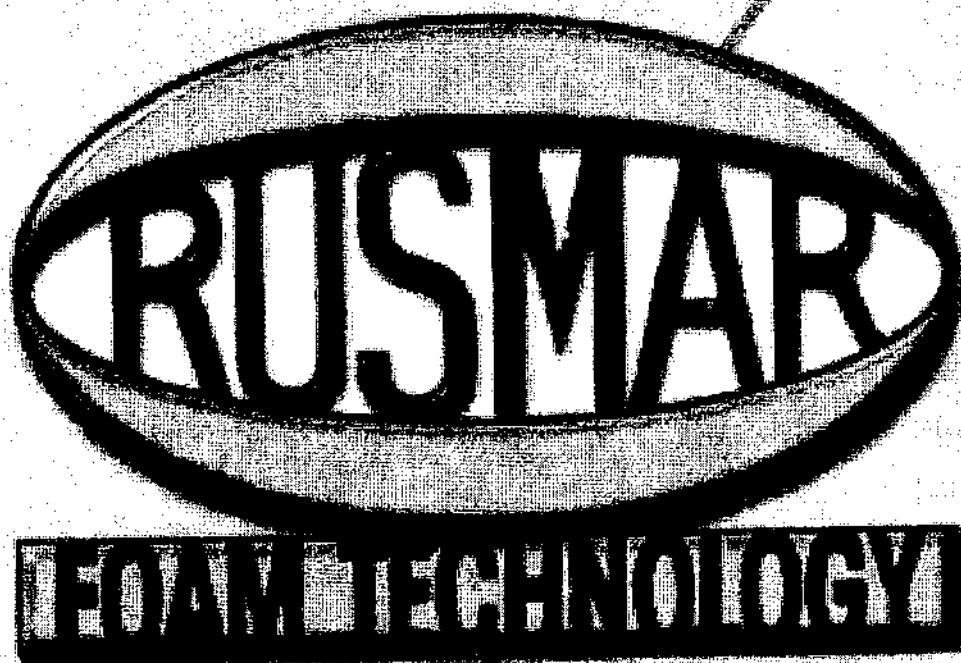
COPY 5 - Generator - Mailed by TSD Facility

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

Retained by	

Appendix F

Rusmar Material Safety Data Sheet



MATERIAL SAFETY DATA SHEET
AC-645

**MATERIAL SAFETY DATA SHEET****AC-645****SECTION I: GENERAL INFORMATION**

Manufacturer's Name:	RUSMAR INCORPORATED
Manufacturer's Address:	216 Garfield Avenue West Chester, PA 19380
Manufacturer's Phone No.:	610-436-4314 or 800-733-3626
Chemical Family:	Aqueous anionic surfactant mixture
Trade Name:	RUSMAR AC-645

SECTION II: HAZARDOUS INGREDIENTS

Paints, Preservatives, and Solvents -- None
Alloys and Metallic Coatings -- None
Hazardous Mixtures and Other Materials -- None

SECTION III: PHYSICAL DATA

Boiling Point: 100°C	Specific Gravity: 1.01 - 1.06
Vapor Pressure: 25mm Hg at 25°C	% Volatile, By Volume: None
Vapor Density (Air = 1): N/A	Evaporation Rate: N/A
Water Solubility: Complete	
Appearance/Odor: Translucent, white, milk-like, odorless, viscous liquid	

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method): Nonflammable
Flammable Limits: N/A
Extinguishing Media: N/A
Special Fire Fighting Procedures: None
Unusual Fire and/or Explosion Hazards: None

MATERIAL SAFETY DATA SHEET, continued
AC-645

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value: Not Determined

Effects of Overexposure: This material is not expected to present an inhalation or ingestion hazard. It may cause an eye or skin irritation upon direct contact.

Emergency and First Aid Procedures: Wash thoroughly with clean water.

SECTION VI: REACTIVITY DATA

Material is stable

No material incompatibility

Hazardous Decomposition Products: Low levels of sulfur oxides on exposure to high temperatures (concentrate). Foam is noncombustible. Polymerization will not occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: If spilled indoors on a hard surface, the spill area may be slippery and should be thoroughly washed with water. Contain spill and absorb material with dirt or other appropriate absorbent.

Waste Disposal Method: This material is completely biodegradable and can be disposed of in a sanitary landfill according to local regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required for normal operations

Ventilation: No Special requirements

Protective Gloves: Not required, but recommended.

Eye Protection: Not required, but recommended.

Other Protective Equipment: None

SECTION IX: SPECIAL PRECAUTIONS

Storing/Handling Precautions: Avoid excessive heat. Material will freeze, but thawing will not cause changes in the product.

Other Precautions: None

* * * Transmission Result Report (MemoryTX) (Dec.19. 2003 10:56AM) * * *

1) THE SEAR-BROWN GROUP
2)

Date/Time: Dec.19. 2003 10:54AM

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
3225 Memory TX	2268696	P. 4	OK	

Reason for error

E.1) Hang up or line fail
E.3) No answerE.2) Busy
E.4) No facsimile connection

SEAR-BROWN

Fax Transmittal Cover Sheet

Please deliver the forthcoming pages to:

Name Frank Sowers
 FICN NYSDOC
 Address Avon, NY
 Fax Machine # 226-8696
 From David Belaskas
 Date December 19, 2003

85 Metro Park
 Rochester, NY 14623
 585.475.1440
 585.272.1814 (FAX)

Transmission includes this page plus 3 page(s).
 If you do not receive all the pages, please call us as soon as possible.

Comments

Frank:
 As requested.
 Dave

Date response is expected _____

Project # 16059
 Project Name Buick Automatics



SEAR-BROWN

Fax Transmittal Cover Sheet

Please deliver the forthcoming pages to:

Name Frank Sowers
Firm NYSDEC
Address Avon, NY
Fax Machine # 226-8696
From David Belaskas
Date December 19, 2003

85 Metro Park
Rochester, NY 14623
585.475.1440
585.272.1814 (FAX)

Transmission includes this page plus 3 page(s).
If you do not receive all the pages, please call us as soon as possible.

Comments

Frank:
As requested.
Dave

Date response is expected _____

Project # 16059

Project Name Buell Automatics



552 Avis Street • Rochester, New York 14615

Phone: (585) 865-5020

Fax: (585) 865-5095

FAX TRANSMITTAL COVER SHEET

TO: Dave Belaskas DATE: 12/19/03 TIME: _____
CO: Sear Brown FAX NO.: 424-5951
FROM: Keith Hambley PAGES (including this page): 4
Extension _____

CONFIRMATION UPON RECEIPT: ☐ Yes ☐ NoORIGINAL TO FOLLOW VIA: ☐ US Mail ☐ Overnight ☐ Modem ☐ N/A

MESSAGE:

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Appendix G

Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, NY 12853

Phone (518) 251-4429

Facsimile (518) 251-4428

RECEIVED

MAR 1 2004



LETTER OF TRANSMITTAL

TO: Peter Smith

COMPANY: Sear Brown Group

FROM: Judy Harry 

DATE: 03-10-04

ENCLOSED: DUSR for the Buell site
CAS Sub. Nos. R2319595, R2319657, R2319774, and R2419875

Associated qualified report forms

Copy of associated invoice (original sent to Dewitt)

COMMENTS:

Ship via: US Express ☒ X ☐ UPS ☐ US Priority ☐ Fed Ex ☐ Other ☐

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

March 10, 2004

Peter Smith
Sear Brown Group
85 Metro Park
Rochester, NY 14623

RE: Data Usability Summary Report for Buell Automatics
CAS Sub. Nos. R2319595, R2319657, R2319774, and R2419875

Dear Mr. Smith:

Review has been completed for the data packages generated by Columbia Analytical Laboratories that pertain to samples collected 12/23/03 through 1/13/04 at the Buell Automatics site. Twenty soil (including one field duplicate) and two aqueous samples were processed for TCL volatiles by NYSDEC ASP CLP method 95-1. Six additional soil samples were processed by USEPA Method 8260B, in order to meet fast turnaround requirements. Trip and cooler blanks were also processed.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Data Completeness
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes
- * Calibration Standards
- * Instrument IDLs

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

In summary, sample analyte values/reporting limits are usable as reported, or usable with minor qualification as estimated ("J" qualifier) due to typical processing or matrix effects.

Copies of the laboratory case narratives and laboratory sample ID summaries are attached to this text, and should be reviewed in conjunction with this report. Included with this submission are red-ink edited sample report forms reflecting final results, showing edits and qualifications recommended within this report.

The following text discusses quality issues of concern. Sample IDs noted below are prefixed by "BU-".

General

Samples collected on 12/24/03, and submitted for fast turnaround, were received by the laboratory a few hours after collection at elevated temperature. The samples were in the process of cooling down and no qualification of their reported results is required. These samples were initially processed and reported as medium level analyses. The samples that show little or no detection at medium level were also analyzed by the low level procedure. These low level results are attached as the final sample results.

TCL Volatiles Analyses by ASP 95-1 and 8260B

Internal standard responses and retention times were acceptable. Instrumental tunes are compliant. Method, cooler, and trip blanks show no contamination.

NYSDEC ASP technical holding times from collection were met, with the exception of those for PIER-NSHAL-S and PIER-NMID-S, which were outside one day. Results for those two samples have been qualified as estimated ("UJ" and "J"), with a possible low bias.

Surrogate recoveries were within protocol requirements, with the exception of that for BFB in NEWALL-S, which was elevated at 116%, above 113%. Results for detected analytes in that sample are therefore qualified as estimated.

Sample matrix spikes were performed on soil samples WWALL-S, GP1-S3BOTT-S, and GP5-12-12.6'-S, and aqueous sample RW-1-W. Accuracy and precision were acceptable, with the exception of low recoveries for trichloroethene (both at 68%, below 71%) in the aqueous spikes. Therefore, the result for that compound in RW-1-W is qualified as estimated ("J").

Blind field duplicate correlation of soil sample NMWALL-S was acceptable. No aqueous correlation is available, but the project has historically shown good correlations.

Calibrations standards showed acceptable responses and linearity.

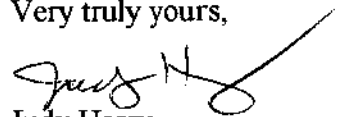
Results for analytes initially reported with the "E" flag are to be derived from the dilution analyses of the samples. All other analyte results can be derived from the lesser dilutions.

The detected value of trichloroethene in SWWALL-S is qualified as estimated ("J"), and may have a high bias due to potential carryover. This sample followed the initial analysis of a sample containing that analyte at concentrations above the linearity of the system.

The detection of chloroethane in GP2-S2-TOP-S is qualified as tentative in identification and estimated in value ("NJ") due to poor spectral quality.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,



Judy Harry

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

[illegible]

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

[illegible]

Batchin1

1/2/04

CASA SP/CLP BATCHING FORM / LOGIN SHEET

[illegible]

CASE NARRATIVE

COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2319595
SDG#: 697119

Water samples were collected by Sear Brown over the period from 12/23-30/03 and received at CAS on 12/24-31/03. All samples were received unbroken, in good condition at a cooler temperature range of 0-1°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were no used on the coolers. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Fifteen (15) soils were analyzed using NYS ASP Method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were also performed.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable except for except for location BU-NEWALL-S (CAS Order # 697128). The BFB was out high (116% limits 59-113) due to matrix interference of hydrocarbons which caused distortion. The Internal standards and first and second surrogates were within QC limits. The sample was not reanalyzed since a medium level dilution would not have provided better results and a lower dilution was not an option due to the interferences. The Form 2B has the recovery flagged as "***".

All samples were run within holding time for ASP protocol of 10 days from VTSR except for locations:

<u>Client ID</u>	<u>CAS Order #</u>	<u>Days outside Holding time</u>
BU-NWWALL-BOTT-S	697119	1
BU-NWWALL-SHAL-S	697121	1
BU-PIER-NSHAL-S	697123	2
BU-PIER-NMID-S	697126	2

Site Specific QC was performed on location BU-WWALLS (CAS Order # 698905). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Locations BU-PIER-NSHAL-S and BU-SEBOTT-S (CAS Order #s 697123 and 698903 respectively) had hits above the calibration range of the instrument. The compounds have been flagged as "E". The samples were repeated at dilutions appropriate for the concentrations. Both sets of data are included in the package. The diluted samples are denoted with the suffix "DL". The hits in the diluted samples are flagged as "D".

Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

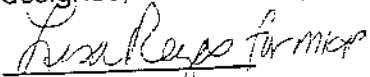
All Method Blanks were free from Target Compound contamination.

Page 2
COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2319595
SDG#: 697119

No Cooler Blank was set up with this SDG due to a laboratory error.

No other problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Michael K. Perry
Laboratory Manager

2/3/04
Date

CASE NARRATIVE

COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2319657 SDG#: 698895

Water samples were collected by Sear Brown on 12/24/03 and received at CAS on the same day. All samples were received within hours of sampling unbroken at a cooler temperature of 15°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Six (6) soils and one (1) Trip Blank were analyzed using SW-846 method 8260B for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample. This method was utilized in order to comply with the Rush Turn Around Time required by the client for these samples as per client instruction.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 14 day holding time for the method.

Site Specific QC was performed on location BU-GP1-S3BOTT-S (CAS Order # 698900). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Most locations were initially run at Medium dilutions and reported for the rush TAT requested by the client. Several samples were later repeated at lower dilutions or undiluted, to achieve and report lower detection limits. Both sets of data are included in the package.

Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for this analysis. The up to 20 of the largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. "D" flags indicate an additional dilution was analyzed.

The Trip Blank was free of contamination from Target Compounds and TIC's. All Method Blanks were free from Target Compound contamination.

No problems were encountered during the analysis of these samples.

CASE NARRATIVE

COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2319774
SDG#: 700222

Water samples were collected by Sear Brown on 12/31/03 and received at CAS on 1/2/04. Samples were received in good condition, unbroken at a cooler temperature of 0°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Five (5) soils were analyzed using ASP method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 10 day holding time from VTSR for this method.

Site Specific QC was performed on location BU-GP5-12-12.6'-S (CAS Order # 700225). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Samples were diluted as appropriate to bring target compounds into the calibration range of the standards. Hits outside the range are flagged as "E", estimated. These samples are then reanalyzed at the proper dilution for the overrange compound. Both sets of data are included in the report. Additional sample dilutions are reported with the suffix "DL" and hits for the second dilution are flagged as "D".

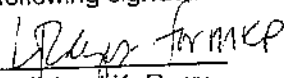
Hits below the CRDL are flagged as "J", estimated.

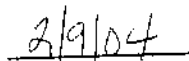
Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

The Cooler Blank set up for the period 12/29/03-1/15/04 was free from contamination. Cooler Blank samples are required as per ASP Protocol.

No problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Michael K. Perry
Laboratory Manager


Date

CASE NARRATIVE

COMPANY: Sear Brown
PROJECT: Buell Automatic #16059
SUBMISSION #: R2419875
SDG#: 702133

Water samples were collected by Sear Brown on 1/13/04 and received at CAS on 1/14/04. Samples were received in good condition, unbroken at a cooler temperature of 5°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers.

VOLATILE ORGANICS

Two (2) water samples and one (1) Trip Blank were analyzed using ASP method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 10 day holding time from VTSR for this method.

Site Specific QC was performed on location RW-1-W (CAS Order # 702133). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were within limits except for Trichloroethene which was low for both the MS and MSD (68% - limits 71-120). Both recoveries were flagged as "**". All Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Samples were diluted as appropriate to bring target compounds into the calibration range of the standards. Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. No TIC's were found in these samples.

No Cooler Blank was set up due to a laboratory error. The Trip Blank and Laboratory Method Blanks were free of contamination.

No problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Michael K. Perry
Laboratory Manager

2/19/04
Date

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WWALL-BOTT

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697119 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3438.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 16.2 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	24	U
75-01-4	Vinyl chloride	11	J
75-00-3	Chloroethane	24	U
74-83-9	Bromomethane	24	U
67-64-1	Acetone	53	
75-09-2	Methylene chloride	24	U
75-15-0	Carbon disulfide	24	U
78-93-3	2-Butanone	24	U
156-59-2	cis-1,2-Dichloroethene	5	J
67-66-3	Chloroform	24	U
107-06-2	1,2-Dichloroethane	24	U
71-55-6	1,1,1-Trichloroethane	24	U
71-43-2	Benzene	3	J
79-01-6	Trichloroethene	9	J
75-27-4	Bromodichloromethane	24	U
10061-01-5	cis-1,3-Dichloropropene	24	U
10061-02-6	trans-1,3-Dichloropropene	24	U
79-00-5	1,1,2-Trichloroethane	24	U
124-48-1	Dibromochloromethane	24	U
75-25-2	Bromoform	24	U
108-10-1	4-Methyl-2-pentanone	24	U
108-88-3	Toluene	24	U
591-78-6	2-Hexanone	24	U
127-18-4	Tetrachloroethene	24	U
108-90-7	Chlorobenzene	24	U
100-41-4	Ethylbenzene	24	U
108-38-3/106-42-3	(m+p)Xylene	24	U
100-42-5	Styrene	24	U
79-34-5	1,1,2,2-Tetrachloroethane	24	U
95-47-6	o-Xylene	24	U
156-60-5	trans-1,2-Dichloroethene	24	U
75-35-4	1,1-Dichloroethene	24	U
75-34-3	1,1-Dichloroethane	10	J
56-23-5	Carbon tetrachloride	24	U
78-87-5	1,2-Dichloropropane	24	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WWALL-BOTT

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697119 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3438.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 16.2 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.95	210	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	340	JN
3. 017302-32-8	Nonane, 3,7-dimethyl-	21.03	160	JN
4. 001678-93-9	Cyclohexane, butyl-	21.25	140	JN
5.	unknown hydrocarbon	22.30	310	J
6.	unknown hydrocarbon	22.83	400	J
7.	unknown alkane	22.97	140	J
8. 017301-32-5	Undecane, 4,7-dimethyl-	23.10	140	JN
9.	unknown hydrocarbon	23.46	260	J
10.	unknown hydrocarbon	23.63	500	J
11. 004292-92-6	Cyclohexane, pentyl-	23.71	270	JN
12.	unknown hydrocarbon	24.07	270	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	220	JN
14.	unknown hydrocarbon	25.16	210	J
15.	unknown alkane	26.16	190	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NWWALL-SHALS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697121 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3439.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 22.6 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	26		U
75-01-4	Vinyl chloride	65		
75-00-3	Chloroethane	26		U
74-83-9	Bromomethane	26		U
67-64-1	Acetone	29		
75-09-2	Methylene chloride	26		U
75-15-0	Carbon disulfide	26		U
78-93-3	2-Butanone	26		U
156-59-2	cis-1,2-Dichloroethene	89		
67-66-3	Chloroform	26		U
107-06-2	1,2-Dichloroethane	26		U
71-55-6	1,1,1-Trichloroethane	26		U
71-43-2	Benzene	3		J
79-01-6	Trichloroethene	26		U
75-27-4	Bromodichloromethane	26		U
10061-01-5	cis-1,3-Dichloropropene	26		U
10061-02-6	trans-1,3-Dichloropropene	26		U
79-00-5	1,1,2-Trichloroethane	26		U
124-48-1	Dibromochloromethane	26		U
75-25-2	Bromoform	26		U
108-10-1	4-Methyl-2-pentanone	26		U
108-88-3	Toluene	26		U
591-78-6	2-Hexanone	26		U
127-18-4	Tetrachloroethene	26		U
108-90-7	Chlorobenzene	26		U
100-41-4	Ethylbenzene	26		U
108-38-3/106-42-3	(m+p)Xylene	26		U
100-42-5	Styrene	26		U
79-34-5	1,1,2,2-Tetrachloroethane	26		U
95-47-6	o-Xylene	26		U
156-60-5	trans-1,2-Dichloroethene	26		U
75-35-4	1,1-Dichloroethene	26		U
75-34-3	1,1-Dichloroethane	22		J
56-23-5	Carbon tetrachloride	26		U
78-87-5	1,2-Dichloropropane	26		U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NWWALL-SHALS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697121 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3439.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 22.6 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.94	190	JN
2. 002847-72-5	Decane, 4-methyl-	20.56	280	JN
3.	unknown alkane	21.03	130	J
4. 001678-93-9	Cyclohexane, butyl-	21.24	170	JN
5.	unknown hydrocarbon	22.30	250	J
6.	unknown hydrocarbon	22.60	150	J
7. 000506-51-4	1-Tetracosanol	22.83	340	JN
8.	unknown hydrocarbon	23.43	220	J
9.	unknown hydrocarbon	23.63	490	J
10.	unknown hydrocarbon	24.06	220	J
11.	unknown hydrocarbon	24.57	130	J
12. 000767-58-8	Indan, 1-methyl-	24.87	170	JN
13. 006044-71-9	Dodecane, 6-methyl-	24.96	260	JN
14.	unknown hydrocarbon	25.15	210	J
15. 062016-34-6	Octane, 2,3,7-trimethyl-	26.15	250	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NSHAL-S

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697123 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3453.D
 Level: (low/med) MED Date Received: 12/27/03
 % Moisture: not dec. 15.4 Date Analyzed: 01/08/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		1500	U J
75-01-4	Vinyl chloride		1500	U
75-00-3	Chloroethane		1500	U
74-83-9	Bromomethane		1500	U
67-64-1	Acetone		1500	U
75-09-2	Methylene chloride		1500	U
75-15-0	Carbon disulfide		1500	U
78-93-3	2-Butanone		1500	U
156-59-2	cis-1,2-Dichloroethene		1700	
67-66-3	Chloroform		1500	U
107-06-2	1,2-Dichloroethane		1500	U
71-55-6	1,1,1-Trichloroethane		450	J
71-43-2	Benzene		1500	U
79-01-6	Trichloroethene	140,000	100000	E
75-27-4	Bromodichloromethane		1500	U
10061-01-5	cis-1,3-Dichloropropene		1500	U
10061-02-6	trans-1,3-Dichloropropene		1500	U
79-00-5	1,1,2-Trichloroethane		1500	U
124-48-1	Dibromochloromethane		1500	U
75-25-2	Bromoform		1500	U
108-10-1	4-Methyl-2-pentanone		1500	U
108-88-3	Toluene		1500	U
591-78-6	2-Hexanone		1500	U
127-18-4	Tetrachloroethene		540	J
108-90-7	Chlorobenzene		1500	U
100-41-4	Ethylbenzene		1500	U
108-38-3/106-42-3	(m+p)Xylene		1500	U
100-42-5	Styrene		1500	U
79-34-5	1,1,2,2-Tetrachloroethane		1500	U
95-47-6	o-Xylene		1500	U
156-60-5	trans-1,2-Dichloroethene		1500	U
75-35-4	1,1-Dichloroethene		1500	U
75-34-3	1,1-Dichloroethane		1500	U
56-23-5	Carbon tetrachloride		1500	U
78-87-5	1,2-Dichloropropane		1500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NSHAL-S

Lab Name: CASI/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697123 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3453.D
 Level: (low/med) MED Date Received: 12/27/03
 % Moisture: not dec. 15.4 Date Analyzed: 01/08/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 14

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	19.96	4300	J
2. 002847-72-5	Decane, 4-methyl-	20.57	1200	JN
3.	unknown alkane	21.03	1100	J
4. 001678-93-9	Cyclohexane, butyl-	21.25	1400	JN
5. 000493-02-7	Naphthalene, decahydro-, trans-	22.30	1900	JN
6. 001120-21-4	Undecane	22.40	2400	JN
7.	unknown hydrocarbon	22.84	2100	J
8.	unknown hydrocarbon	23.27	1100	J
9.	unknown hydrocarbon	23.63	2700	J
10. 004292-92-6	Cyclohexane, pentyl-	23.71	1700	JN
11.	unknown hydrocarbon	24.07	2600	J
12.	unknown hydrocarbon	25.21	1000	J
13.	unknown hydrocarbon	26.20	1400	J
14.	unknown hydrocarbon	26.45	1500	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NMID-S

Lab Name: CASROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697126 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3457.D

Level: (low/med) MED Date Received: 12/27/03

% Moisture: not dec. 17.4 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 125.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500	U	✓
75-01-4	Vinyl chloride	1500	U	
75-00-3	Chloroethane	1500	U	
74-83-9	Bromomethane	1500	U	
67-64-1	Acetone	1500	U	
75-09-2	Methylene chloride	1500	U	
75-15-0	Carbon disulfide	1500	U	
78-93-3	2-Butanone	1500	U	
156-59-2	cis-1,2-Dichloroethene	2000		
67-66-3	Chloroform	1500	U	
107-06-2	1,2-Dichloroethane	1500	U	
71-55-6	1,1,1-Trichloroethane	1500	U	
71-43-2	Benzene	1500	U	
79-01-6	Trichloroethene	390	J	
75-27-4	Bromodichloromethane	1500	U	
10061-01-5	cis-1,3-Dichloropropene	1500	U	
10061-02-6	trans-1,3-Dichloropropene	1500	U	
79-00-5	1,1,2-Trichloroethane	1500	U	
124-48-1	Dibromochloromethane	1500	U	
75-25-2	Bromoform	1500	U	
108-10-1	4-Methyl-2-pentanone	1500	U	
108-88-3	Toluene	1500	U	
591-78-6	2-Hexanone	1500	U	
127-18-4	Tetrachloroethene	1500	U	
108-90-7	Chlorobenzene	1500	U	
100-41-4	Ethylbenzene	160	J	
108-38-3/106-42-3	(m+p)Xylene	450	J	
100-42-5	Styrene	1500	U	
79-34-5	1,1,2,2-Tetrachloroethane	1500	U	
95-47-6	o-Xylene	380	J	
156-60-5	trans-1,2-Dichloroethene	1500	U	
75-35-4	1,1-Dichloroethene	1500	U	
75-34-3	1,1-Dichloroethane	1500	U	
56-23-5	Carbon tetrachloride	1500	U	
78-87-5	1,2-Dichloropropane	1500	U	✓

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NMID-S

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697126 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3457.D
 Level: (low/med) MED Date Received: 12/27/03
 % Moisture: not dec. 17.4 Date Analyzed: 01/08/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.96	32000	JN
2. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.76	6700	JN
3. 001678-93-9	Cyclohexane, butyl-	21.23	9500	JN
4. 000141-93-5	Benzene, 1,3-diethyl-	22.18	5600	JN
5.	unknown hydrocarbon	22.29	5600	J
6. 001120-21-4	Undecane	22.39	18000	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.59	8700	JN
8.	unknown hydrocarbon	22.83	9900	J
9.	unknown hydrocarbon	23.26	6900	J
10.	unknown hydrocarbon	23.45	6100	J
11.	unknown hydrocarbon	23.62	10000	J
12. 004292-92-6	Cyclohexane, pentyl-	23.70	6600	JN
13.	unknown hydrocarbon	24.06	9700	J
14. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.81	6200	JN
15.	unknown hydrocarbon	26.45	5800	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NWALL-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697127 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3413.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 22.6 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	26	U	U
75-01-4	Vinyl chloride	26	U	U
75-00-3	Chloroethane	26	U	U
74-83-9	Bromomethane	26	U	U
67-64-1	Acetone	79	U	U
75-09-2	Methylene chloride	26	U	U
75-15-0	Carbon disulfide	26	U	U
78-93-3	2-Butanone	26	U	U
156-59-2	cis-1,2-Dichloroethene	26	U	U
67-66-3	Chloroform	26	U	U
107-06-2	1,2-Dichloroethane	26	U	U
71-55-6	1,1,1-Trichloroethane	26	U	U
71-43-2	Benzene	26	U	U
79-01-6	Trichloroethene	26	U	U
75-27-4	Bromodichloromethane	26	U	U
10061-01-5	cis-1,3-Dichloropropene	26	U	U
10061-02-6	trans-1,3-Dichloropropene	26	U	U
79-00-5	1,1,2-Trichloroethane	26	U	U
124-48-1	Dibromochloromethane	26	U	U
75-25-2	Bromoform	26	U	U
108-10-1	4-Methyl-2-pentanone	26	U	U
108-88-3	Toluene	26	U	U
591-78-6	2-Hexanone	26	U	U
127-18-4	Tetrachloroethene	26	U	U
108-90-7	Chlorobenzene	26	U	U
100-41-4	Ethylbenzene	26	U	U
108-38-3/106-42-3	(m+p)Xylene	26	U	U
100-42-5	Styrene	26	U	U
79-34-5	1,1,2,2-Tetrachloroethane	26	U	U
95-47-6	o-Xylene	26	U	U
156-60-5	trans-1,2-Dichloroethene	26	U	U
75-35-4	1,1-Dichloroethene	26	U	U
75-34-3	1,1-Dichloroethane	26	U	U
56-23-5	Carbon tetrachloride	26	U	U
78-87-5	1,2-Dichloropropane	26	U	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NWALL-S

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697127 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3413.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 22.6 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown cyclic hydrocarbon	19.96	100	J
2. 002847-72-5	Decane, 4-methyl-	20.58	140	JN
3. 001678-93-9	Cyclohexane, butyl-	21.26	90	JN
4.	unknown hydrocarbon	22.31	150	J
5.	unknown cyclic hydrocarbon	22.48	120	J
6.	unknown hydrocarbon	22.61	210	J
7.	unknown hydrocarbon	22.84	240	J
8. 000527-84-4	Benzene, 1-methyl-2-(1-methylet	22.99	110	JN
9.	unknown hydrocarbon	23.47	130	J
10.	unknown hydrocarbon	23.65	260	J
11.	unknown hydrocarbon	24.07	190	J
12.	unknown hydrocarbon	24.82	91	J
13. 006044-71-9	Dodecane, 6-methyl-	24.97	210	JN
14.	unknown hydrocarbon	25.17	140	J
15. 005911-04-6	Nonane, 3-methyl-	26.16	180	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NEWALL-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697128 5.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3414.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 18.9 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1050

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	62		U
75-01-4	Vinyl chloride	62		U
75-00-3	Chloroethane	62		U
74-83-9	Bromomethane	62		U
67-64-1	Acetone	84		J
75-09-2	Methylene chloride	62		U
75-15-0	Carbon disulfide	62		U
78-93-3	2-Butanone	8		J
156-59-2	cis-1,2-Dichloroethene	17		J
67-66-3	Chloroform	62		U
107-06-2	1,2-Dichloroethane	62		U
71-55-6	1,1,1-Trichloroethane	62		U
71-43-2	Benzene	62		U
79-01-6	Trichloroethene	240		J
75-27-4	Bromodichloromethane	62		U
10061-01-5	cis-1,3-Dichloropropene	62		U
10061-02-6	trans-1,3-Dichloropropene	62		U
79-00-5	1,1,2-Trichloroethane	62		U
124-48-1	Dibromochloromethane	62		U
75-25-2	Bromoform	62		U
108-10-1	4-Methyl-2-pentanone	62		U
108-88-3	Toluene	62		U
591-78-6	2-Hexanone	62		U
127-18-4	Tetrachloroethene	62		U
108-90-7	Chlorobenzene	62		U
100-41-4	Ethylbenzene	44		J
108-38-3/106-42-3	(m+p)Xylene	40		J
100-42-5	Styrene	62		U
79-34-5	1,1,2,2-Tetrachloroethane	62		U
95-47-6	o-Xylene	69		J
156-60-5	trans-1,2-Dichloroethene	62		U
75-35-4	1,1-Dichloroethene	62		U
75-34-3	1,1-Dichloroethane	62		U
56-23-5	Carbon tetrachloride	62		U
78-87-5	1,2-Dichloropropane	62		U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NEWALL-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697128 5.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3414.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 18.9 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 5.0

Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	18.90	2600	J
2. 017301-94-9	Nonane, 4-methyl-	19.02	3000	JN
3. 004291-79-6	Cyclohexane, 1-methyl-2-propyl-	19.98	3400	JN
4. 002847-72-5	Decane, 4-methyl-	20.58	4200	JN
5. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.78	4200	JN
6.	unknown alkane	21.05	2500	J
7. 001678-93-9	Cyclohexane, butyl-	21.27	5900	JN
8.	unknown alkane	21.42	3100	J
9.	unknown hydrocarbon	22.32	4200	J
10.	unknown hydrocarbon	22.62	4400	J
11.	unknown hydrocarbon	22.85	6600	J
12.	unknown hydrocarbon	22.99	3000	J
13.	unknown hydrocarbon	23.48	3500	J
14.	unknown hydrocarbon	23.65	4800	J
15.	unknown hydrocarbon	24.08	2900	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXCDUP-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697129 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3415.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 27 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 2.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	27	U
75-01-4	Vinyl chloride	27	U
75-00-3	Chloroethane	27	U
74-83-9	Bromomethane	27	U
67-64-1	Acetone	34	
75-09-2	Methylene chloride	27	U
75-15-0	Carbon disulfide	27	U
78-93-3	2-Butanone	4	J
156-59-2	cis-1,2-Dichloroethene	27	U
67-66-3	Chloroform	27	U
107-06-2	1,2-Dichloroethane	27	U
71-55-6	1,1,1-Trichloroethane	27	U
71-43-2	Benzene	27	U
79-01-6	Trichloroethene	27	U
75-27-4	Bromodichloromethane	27	U
10061-01-5	cis-1,3-Dichloropropene	27	U
10061-02-6	trans-1,3-Dichloropropene	27	U
79-00-5	1,1,2-Trichloroethane	27	U
124-48-1	Dibromochloromethane	27	U
75-25-2	Bromoform	27	U
108-10-1	4-Methyl-2-pentanone	27	U
108-88-3	Toluene	27	U
591-78-6	2-Hexanone	27	U
127-18-4	Tetrachloroethene	27	U
108-90-7	Chlorobenzene	27	U
100-41-4	Ethylbenzene	27	U
108-38-3/106-42-3	(m+p)Xylene	27	U
100-42-5	Styrene	27	U
79-34-5	1,1,2,2-Tetrachloroethane	27	U
95-47-6	o-Xylene	27	U
156-60-5	trans-1,2-Dichloroethene	27	U
75-35-4	1,1-Dichloroethene	27	U
75-34-3	1,1-Dichloroethane	27	U
56-23-5	Carbon tetrachloride	27	U
78-87-5	1,2-Dichloropropane	27	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXCDUP-S

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697129 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3415.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 27 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.96	110	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	140	JN
3. 001678-93-9	Cyclohexane, butyl-	21.26	110	JN
4. 006975-98-0	Decane, 2-methyl-	21.57	73	JN
5.	unknown hydrocarbon	22.31	130	J
6.	unknown hydrocarbon	22.61	99	J
7. 000506-51-4	1-Tetracosanol	22.85	200	JN
8. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	22.99	99	JN
9.	unknown hydrocarbon	23.47	130	J
10.	unknown hydrocarbon	23.65	250	J
11.	unknown hydrocarbon	24.07	200	J
12.	unknown hydrocarbon	24.81	170	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	220	JN
14.	unknown hydrocarbon	25.16	160	J
15. 062016-34-6	Octane, 2,3,7-trimethyl-	26.15	210	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWALLS

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698901 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3383.D

Level: (low/med) LOW Date Received: 12/24/03

% Moisture: not dec. 17.5 Date Analyzed: 01/02/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
74-83-9	Bromomethane	12	U
67-64-1	Acetone	21	
75-09-2	Methylene chloride	12	U
75-15-0	Carbon disulfide	12	U
78-93-3	2-Butanone	4	J
156-59-2	cis-1,2-Dichloroethene	11	J
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	24	
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
108-38-3/106-42-3	(m+p)Xylene	2	J
100-42-5	Styrene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
95-47-6	o-Xylene	2	J
156-60-5	trans-1,2-Dichloroethene	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
78-87-5	1,2-Dichloropropane	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWALLS

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698901 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3383.D

Level: (low/med) LOW Date Received: 12/24/03

% Moisture: not dec. 17.5 Date Analyzed: 01/02/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.99	860	JN
2. 002847-72-5	Decane, 4-methyl-	20.60	240	JN
3. 006975-98-0	Decane, 2-methyl-	21.59	180	JN
4. 001120-21-4	Undecane	22.43	1200	JN
5.	unknown hydrocarbon	22.64	180	J
6.	unknown hydrocarbon	22.87	310	J
7.	unknown hydrocarbon	23.49	200	J
8.	unknown hydrocarbon	23.67	290	J
9. 007045-71-8	Undecane, 2-methyl-	23.89	160	JN
10.	unknown hydrocarbon	24.09	320	J
11. 000112-40-3	Dodecane	24.68	810	JN
12.	unknown aromatic hydrocarbon	24.85	170	J
13. 006044-71-9	Dodecane, 6-methyl-	24.99	190	JN
14.	unknown hydrocarbon	26.18	180	J
15. 000629-50-5	Tridecane	26.65	170	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SEWALLS

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698902 625.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3363.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 15.3 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10625.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	7400	U
75-01-4	Vinyl chloride	3000	J
75-00-3	Chloroethane	7400	U
74-83-9	Bromomethane	7400	U
67-64-1	Acetone	7400	U
75-09-2	Methylene chloride	7400	U
75-15-0	Carbon disulfide	7400	U
78-93-3	2-Butanone	7400	U
156-59-2	cis-1,2-Dichloroethene	150000	
67-66-3	Chloroform	7400	U
107-06-2	1,2-Dichloroethane	7400	U
71-55-6	1,1,1-Trichloroethane	6500	J
71-43-2	Benzene	7400	U
79-01-6	Trichloroethene	110000	
75-27-4	Bromodichloromethane	7400	U
10061-01-5	cis-1,3-Dichloropropene	7400	U
10061-02-6	trans-1,3-Dichloropropene	7400	U
79-00-5	1,1,2-Trichloroethane	7400	U
124-48-1	Dibromochloromethane	7400	U
75-25-2	Bromoform	7400	U
108-10-1	4-Methyl-2-pentanone	7400	U
108-88-3	Toluene	7400	U
591-78-6	2-Hexanone	7400	U
127-18-4	Tetrachloroethene	7400	U
108-90-7	Chlorobenzene	7400	U
100-41-4	Ethylbenzene	940	J
108-38-3/106-42-3	(m+p)Xylene	2300	J
100-42-5	Styrene	7400	U
79-34-5	1,1,2,2-Tetrachloroethane	7400	U
95-47-6	o-Xylene	2000	J
156-60-5	trans-1,2-Dichloroethene	7400	U
75-35-4	1,1-Dichloroethene	7400	U
75-34-3	1,1-Dichloroethane	880	J
56-23-5	Carbon tetrachloride	7400	U
78-87-5	1,2-Dichloropropane	7400	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SEWALLS

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698902 625.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3363.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 15.3 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 625.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	20.00	120000	JN
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	20.81	32000	JN
3. 001678-93-9	Cyclohexane, butyl-	21.29	44000	JN
4. 000141-93-5	Benzene, 1,3-diethyl-	22.23	28000	JN
5.	unknown hydrocarbon	22.34	31000	J
6. 001120-21-4	Undecane	22.44	63000	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.65	40000	JN
8.	unknown hydrocarbon	22.88	30000	J
9. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	23.03	24000	JN
10.	unknown hydrocarbon	23.31	34000	J
11.	unknown hydrocarbon	23.51	28000	J
12.	unknown hydrocarbon	23.67	48000	J
13.	unknown hydrocarbon	24.11	48000	J
14. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.85	31000	JN
15.	unknown hydrocarbon	26.49	22000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SEBOTTIS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698903 625.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3367.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 16 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 625.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		7400	U
75-01-4	Vinyl chloride		5100	J
75-00-3	Chloroethane		7400	U
74-83-9	Bromomethane		7400	U
67-64-1	Acetone		7400	U
75-09-2	Methylene chloride		7400	U
75-15-0	Carbon disulfide		7400	U
78-93-3	2-Butanone		7400	U
156-59-2	cis-1,2-Dichloroethene	190,000	180000	E
67-66-3	Chloroform		7400	U
107-06-2	1,2-Dichloroethane		7400	U
71-55-6	1,1,1-Trichloroethane		7100	J
71-43-2	Benzene		7400	U
79-01-6	Trichloroethene		7400	U
75-27-4	Bromodichloromethane		7400	U
10061-01-5	cis-1,3-Dichloropropene		7400	U
10061-02-6	trans-1,3-Dichloropropene		7400	U
79-00-5	1,1,2-Trichloroethane		7400	U
124-48-1	Dibromochloromethane		7400	U
75-25-2	Bromoform		7400	U
108-10-1	4-Methyl-2-pentanone		7400	U
108-88-3	Toluene		840	J
591-78-6	2-Hexanone		7400	U
127-18-4	Tetrachloroethene		7400	U
108-90-7	Chlorobenzene		7400	U
100-41-4	Ethylbenzene		1900	J
108-38-3/106-42-3	(m+p)Xylene		4000	J
100-42-5	Styrene		7400	U
79-34-5	1,1,2,2-Tetrachloroethane		7400	U
95-47-6	o-Xylene		3500	J
156-60-5	trans-1,2-Dichloroethene		7400	U
75-35-4	1,1-Dichloroethene		890	J
75-34-3	1,1-Dichloroethane		1400	J
56-23-5	Carbon tetrachloride		7400	U
78-87-5	1,2-Dichloropropane		7400	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SEBOTTTS

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698903 625.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3367.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 16 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 625.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.99	150000	JN
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	20.80	47000	JN
3. 001678-93-9	Cyclohexane, butyl-	21.28	75000	JN
4. 000141-93-5	Benzene, 1,3-diethyl-	22.22	40000	JN
5.	unknown hydrocarbon	22.33	39000	J
6. 001120-21-4	Undecane	22.43	59000	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.64	47000	JN
8.	unknown hydrocarbon	22.87	35000	J
9. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	23.02	34000	JN
10.	unknown hydrocarbon	23.31	53000	J
11.	unknown hydrocarbon	23.50	37000	J
12.	unknown hydrocarbon	23.66	61000	J
13.	unknown hydrocarbon	24.10	62000	J
14. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.85	43000	JN
15. 000091-20-3	Naphthalene	26.20	38000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWWALLS

Lab Name: CASI\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698904 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3368.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 19.2 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 125.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		1500	U
75-01-4	Vinyl chloride		1500	U
75-00-3	Chloroethane		1500	U
74-83-9	Bromomethane		1500	U
67-64-1	Acetone		1500	U
75-09-2	Methylene chloride		1500	U
75-15-0	Carbon disulfide		1500	U
78-93-3	2-Butanone		1500	U
156-59-2	cis-1,2-Dichloroethene		1100	J
67-66-3	Chloroform		1500	U
107-06-2	1,2-Dichloroethane		1500	U
71-55-6	1,1,1-Trichloroethane		1500	U
71-43-2	Benzene		1500	U
79-01-6	Trichloroethene		5300	J
75-27-4	Bromodichloromethane		1500	U
10061-01-5	cis-1,3-Dichloropropene		1500	U
10061-02-6	trans-1,3-Dichloropropene		1500	U
79-00-5	1,1,2-Trichloroethane		1500	U
124-48-1	Dibromochloromethane		1500	U
75-25-2	Bromoform		1500	U
108-10-1	4-Methyl-2-pentanone		1500	U
108-88-3	Toluene		1500	U
591-78-6	2-Hexanone		1500	U
127-18-4	Tetrachloroethene		1500	U
108-90-7	Chlorobenzene		1500	U
100-41-4	Ethylbenzene		1500	U
108-38-3/106-42-3	(m+p)Xylene		1500	U
100-42-5	Styrene		1500	U
79-34-5	1,1,2,2-Tetrachloroethane		1500	U
95-47-6	o-Xylene		1500	U
156-60-5	trans-1,2-Dichloroethene		1500	U
75-35-4	1,1-Dichloroethene		1500	U
75-34-3	1,1-Dichloroethane		1500	U
56-23-5	Carbon tetrachloride		1500	U
78-87-5	1,2-Dichloropropane		1500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWWALLS

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698904 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3368.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 19.2 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 4

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.98	2000	JN
2. 001120-21-4	Undecane	22.43	1700	JN
3. 000112-40-3	Dodecane	24.66	790	JN
4. 000091-20-3	Naphthalene	26.19	920	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WWALLS

Lab Name: CASIROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698905 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3369.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 18.9 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 125.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		1500	U
75-01-4	Vinyl chloride		1500	U
75-00-3	Chloroethane		1500	U
74-83-9	Bromomethane		1500	U
67-64-1	Acetone		1500	U
75-09-2	Methylene chloride		1500	U
75-15-0	Carbon disulfide		1500	U
78-93-3	2-Butanone		1500	U
156-59-2	cis-1,2-Dichloroethene		1800	
67-66-3	Chloroform		1500	U
107-06-2	1,2-Dichloroethane		1500	U
71-55-6	1,1,1-Trichloroethane		1500	U
71-43-2	Benzene		1500	U
79-01-6	Trichloroethene		13000	
75-27-4	Bromodichloromethane		1500	U
10061-01-5	cis-1,3-Dichloropropene		1500	U
10061-02-6	trans-1,3-Dichloropropene		1500	U
79-00-5	1,1,2-Trichloroethane		1500	U
124-48-1	Dibromochloromethane		1500	U
75-25-2	Bromoform		1500	U
108-10-1	4-Methyl-2-pentanone		1500	U
108-88-3	Toluene		1500	U
591-78-6	2-Hexanone		1500	U
127-18-4	Tetrachloroethene		1500	U
108-90-7	Chlorobenzene		1500	U
100-41-4	Ethylbenzene		1500	U
108-38-3/106-42-3	(m+p)Xylene		1500	U
100-42-5	Styrene		1500	U
79-34-5	1,1,2,2-Tetrachloroethane		1500	U
95-47-6	o-Xylene		1500	U
156-60-5	trans-1,2-Dichloroethene		1500	U
75-35-4	1,1-Dichloroethene		1500	U
75-34-3	1,1-Dichloroethane		1500	U
56-23-5	Carbon tetrachloride		1500	U
78-87-5	1,2-Dichloropropane		1500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WWALLS

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698905 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3369.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 18.9 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 6

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.99	1100	JN
2. 001120-21-4	Undecane	22.42	2100	JN
3.	unknown hydrocarbon	23.71	1200	J
4. 000112-40-3	Dodecane	24.67	1500	JN
5. 000091-20-3	Naphthalene	26.19	770	JN
6. 000629-50-5	Tridecane	26.65	970	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WWALL2-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 699602 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3416.D

Level: (low/med) LOW Date Received: 12/31/03

% Moisture: not dec. 13.4 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	23	U
75-01-4	Vinyl chloride	23	U
75-00-3	Chloroethane	23	U
74-83-9	Bromomethane	23	U
67-64-1	Acetone	18	J
75-09-2	Methylene chloride	23	U
75-15-0	Carbon disulfide	23	U
78-93-3	2-Butanone	23	U
156-59-2	cis-1,2-Dichloroethene	270	
67-66-3	Chloroform	23	U
107-06-2	1,2-Dichloroethane	23	U
71-55-6	1,1,1-Trichloroethane	23	U
71-43-2	Benzene	23	U
79-01-6	Trichloroethene	280	
75-27-4	Bromodichloromethane	23	U
10061-01-5	cis-1,3-Dichloropropene	23	U
10061-02-6	trans-1,3-Dichloropropene	23	U
79-00-5	1,1,2-Trichloroethane	23	U
124-48-1	Dibromochloromethane	23	U
75-25-2	Bromoform	23	U
108-10-1	4-Methyl-2-pentanone	23	U
108-88-3	Toluene	23	U
591-78-6	2-Hexanone	23	U
127-18-4	Tetrachloroethene	23	U
108-90-7	Chlorobenzene	23	U
100-41-4	Ethylbenzene	23	U
108-38-3/106-42-3	(m+p)Xylene	23	U
100-42-5	Styrene	23	U
79-34-5	1,1,2,2-Tetrachloroethane	23	U
95-47-6	o-Xylene	23	U
156-60-5	trans-1,2-Dichloroethene	23	U
75-35-4	1,1-Dichloroethene	23	U
75-34-3	1,1-Dichloroethane	4	J
56-23-5	Carbon tetrachloride	23	U
78-87-5	1,2-Dichloropropane	23	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WWALL2-S

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
Matrix: (soil/water) SOIL Lab Sample ID: 699602 2.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3416.D
Level: (low/med) LOW Date Received: 12/31/03
% Moisture: not dec. 13.4 Date Analyzed: 01/06/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	26.16	13	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WBOTT2-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 699603 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3440.D

Level: (low/med) LOW Date Received: 12/31/03

% Moisture: not dec. 19.2 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 L.D

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	25	U
75-01-4	Vinyl chloride	25	U
75-00-3	Chloroethane	25	U
74-83-9	Bromomethane	25	U
67-64-1	Acetone	8	J
75-09-2	Methylene chloride	25	U
75-15-0	Carbon disulfide	25	U
78-93-3	2-Butanone	25	U
156-59-2	cis-1,2-Dichloroethene	57	
67-66-3	Chloroform	25	U
107-06-2	1,2-Dichloroethane	25	U
71-55-6	1,1,1-Trichloroethane	25	U
71-43-2	Benzene	25	U
79-01-6	Trichloroethene	100	
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
124-48-1	Dibromochloromethane	25	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
108-38-3/106-42-3	(m+p)Xylene	25	U
100-42-5	Styrene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
95-47-6	o-Xylene	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
56-23-5	Carbon tetrachloride	25	U
78-87-5	1,2-Dichloropropane	25	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WBOTT2-S

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 699603 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3440.D
 Level: (low/med) LOW Date Received: 12/31/03
 % Moisture: not dec. 19.2 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG
 Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 062016-34-6	Octane, 2,3,7-trimethyl-	26.15	22	JN
2.	unknown hydrocarbon	27.79	27	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW1-BOTTS

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 699604 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3418.D

Level: (low/med) LOW Date Received: 12/31/03

% Moisture: not dec. 19.1 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	5	J
75-00-3	Chloroethane	12	U
74-83-9	Bromomethane	12	U
67-64-1	Acetone	15	
75-09-2	Methylene chloride	12	U
75-15-0	Carbon disulfide	12	U
78-93-3	2-Butanone	12	U
156-59-2	cis-1,2-Dichloroethene	7	J
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	61	
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
108-38-3/106-42-3	(m+p)Xylene	12	U
100-42-5	Styrene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
95-47-6	o-Xylene	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	2	J
56-23-5	Carbon tetrachloride	12	U
78-87-5	1,2-Dichloropropane	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW1-BOTTS

Lab Name: CAS/ROCH

Contract: SEARB

Lab Code: 10145

Case No.: R3-19595

SAS No.: _____

SDG No.: 697119

Matrix: (soil/water) SOIL

Lab Sample ID: 699604 1.0

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3418.D

Level: (low/med) LOW

Date Received: 12/31/03

% Moisture: not dec. 19.1

Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume 1 (uL)

Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 15

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.96	50	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	72	JN
3.	unknown alkane	21.03	35	J
4. 001678-93-9	Cyclohexane, butyl-	21.25	41	JN
5.	unknown hydrocarbon	22.31	65	J
6.	unknown hydrocarbon	22.61	78	J
7. 000506-51-4	1-Tetracosanol	22.84	93	JN
8.	unknown alkane	23.10	35	J
9.	unknown hydrocarbon	23.46	65	J
10.	unknown hydrocarbon	23.64	130	J
11.	unknown hydrocarbon	24.07	79	J
12.	unknown hydrocarbon	24.87	41	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	73	JN
14.	unknown hydrocarbon	25.16	69	J
15.	unknown alkane	26.16	82	J

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL

Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP2-S2TOP-S

Date Sampled : 12/24/03 10:52 Order #: 698895 Sample Matrix: SOIL/SEDIMENT
 Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 84.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 5.00			Dry Weight
ACETONE	20	120 U	UG/KG
BENZENE	5.0	30 U	UG/KG
BROMODICHLOROMETHANE	5.0	30 U	UG/KG
BROMOFORM	5.0	30 U	UG/KG
BROMOMETHANE	5.0	30 U	UG/KG
2-BUTANONE (MEK)	10	13 J	UG/KG
CARBON DISULFIDE	10	59 U	UG/KG
CARBON TETRACHLORIDE	5.0	30 U	UG/KG
CHLOROBENZENE	5.0	30 U	UG/KG
CHLOROETHANE	5.0	11 J N	UG/KG
CHLOROFORM	5.0	30 U	UG/KG
CHLOROMETHANE	5.0	30 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	30 U	UG/KG
1,1-DICHLOROETHANE	5.0	30 U	UG/KG
1,2-DICHLOROETHANE	5.0	30 U	UG/KG
1,1-DICHLOROETHENE	5.0	30 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	15 J	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	30 U	UG/KG
1,2-DICHLOROPROPANE	5.0	30 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	30 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	30 U	UG/KG
ETHYLBENZENE	5.0	190	UG/KG
2-HEXANONE	10	59 U	UG/KG
METHYLENE CHLORIDE	5.0	30 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	59 U	UG/KG
STYRENE	5.0	30 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	30 U	UG/KG
TETRACHLOROETHENE	5.0	30 U	UG/KG
TOLUENE	5.0	30 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	30 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	30 U	UG/KG
TRICHLOROETHENE	5.0	20 J	UG/KG
VINYL CHLORIDE	5.0	30 U	UG/KG
O-XYLENE	5.0	46	UG/KG
M+P-XYLENE	5.0	450	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	93	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	100	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP2-S2TOPS

Lab Name: cas/roch Contract: SEARB
 Lab Code: 10145 Case No.: R3-19657 SAS No.: SDG No.: 698895
 Matrix: (soil/water) SOIL Lab Sample ID: 698895 250.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3290.D
 Level: (low/med) MED Date Received:
 % Moisture: not dec. 15.6 Date Analyzed: 12/24/03
 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: 20 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown aliphatic hydrocarbon	18.05	5300	J
2.	unknown aliphatic hydrocarbon	18.32	4600	J
3. 001678-92-8	Cyclohexane, propyl-	18.62	5400	JN
4.	unknown aliphatic hydrocarbon	18.93	8200	J
5.	unknown c10 aliphatic	19.04	8700	J
6.	unknown cyclic hydrocarbon	20.01	9700	J
7. 002847-72-5	Decane, 4-methyl-	20.61	4400	JN
8. 000095-63-6	Benzene, 1,2,4-trimethyl-	20.81	7500	JN
9. 001678-93-9	Cyclohexane, butyl-	21.30	12000	JN
10. 000105-05-5	Benzene, 1,4-diethyl-	22.24	4900	JN
11. 000493-02-7	Naphthalene, decahydro-, trans-	22.35	7700	JN
12.	unknown cyclic hydrocarbon	22.51	4000	J
13.	unknown aromatic hydrocarbon	22.64	8800	J
14.	unknown hydrocarbon	22.88	11000	J
15. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	23.03	4900	JN
16.	unknown hydrocarbon	23.32	5200	J
17.	unknown hydrocarbon	23.51	6300	J
18.	unknown hydrocarbon	23.67	10000	J
19.	unknown cyclic hydrocarbon	23.76	6300	J
20. 002958-76-1	Naphthalene, decahydro-2-methy	24.12	8300	JN

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL

Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S1TOP-S

Date Sampled : 12/24/03 11:00 Order #: 698896 Sample Matrix: SOIL/SEDIMENT
 Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 91.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 625.00			Dry Weight
ACETONE	20	14000 U	UG/KG
BENZENE	5.0	3400 U	UG/KG
BROMODICHLOROMETHANE	5.0	3400 U	UG/KG
BROMOFORM	5.0	3400 U	UG/KG
BROMOMETHANE	5.0	3400 U	UG/KG
2-BUTANONE (MEK)	10	6800 U	UG/KG
CARBON DISULFIDE	10	6800 U	UG/KG
CARBON TETRACHLORIDE	5.0	3400 U	UG/KG
CHLOROBENZENE	5.0	3400 U	UG/KG
CHLOROETHANE	5.0	3400 U	UG/KG
CHLOROFORM	5.0	3400 U	UG/KG
CHLOROMETHANE	5.0	3400 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	3400 U	UG/KG
1,1-DICHLOROETHANE	5.0	880 J	UG/KG
1,2-DICHLOROETHANE	5.0	3400 U	UG/KG
1,1-DICHLOROETHENE	5.0	3400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	67000	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	3400 U	UG/KG
1,2-DICHLOROPROPANE	5.0	3400 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	3400 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	3400 U	UG/KG
ETHYLBENZENE	5.0	3400 U	UG/KG
2-HEXANONE	10	6800 U	UG/KG
METHYLENE CHLORIDE	5.0	3400 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	6800 U	UG/KG
STYRENE	5.0	3400 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	3400 U	UG/KG
TETRACHLOROETHENE	5.0	810 J	UG/KG
TOLUENE	5.0	3400 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	3500	UG/KG
1,1,2-TRICHLOROETHANE	5.0	3400 U	UG/KG
TRICHLOROETHENE	5.0	120000	UG/KG
VINYL CHLORIDE	5.0	3400 U	UG/KG
O-XYLENE	5.0	3400 U	UG/KG
M+P-XYLENE	5.0	3400 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	104	%
TOLUENE-D8	(83 - 117 %)	105	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	102	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP3-S1TOPS

Lab Name: cas/roch Contract: SEARB
 Lab Code: 10145 Case No.: R3-19657 SAS No.: SDG No.: 698895
 Matrix: (soil/water) SOIL Lab Sample ID: 698896 625.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3291.D
 Level: (low/med) MED Date Received:
 % Moisture: not dec. 8.4 Date Analyzed: 12/24/03
 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 11

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown aliphatic	20.00	11000	J
2. 002847-72-5	Decane, 4-methyl-	20.61	3600	JN
3. 001678-93-9	Cyclohexane, butyl-	21.30	7700	JN
4. 000493-02-7	Naphthalene, decahydro-, trans-	22.35	4700	JN
5. 001120-21-4	Undecane	22.44	8800	JN
6.	unknown aromatic hydrocarbon	22.64	5500	J
7.	unknown hydrocarbon	22.88	5900	J
8.	unknown hydrocarbon	23.51	3600	J
9.	unknown hydrocarbon	23.67	6100	J
10.	unknown cyclic hydrocarbon	23.76	4400	J
11. 002958-76-1	Naphthalene, decahydro-2-methy	24.12	5800	JN

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S1MID-S

Date Sampled : 12/24/03 11:02 Order #: 698897 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 86.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	2900 U	UG/KG
BENZENE	5.0	730 U	UG/KG
BROMODICHLOROMETHANE	5.0	730 U	UG/KG
BROMOFORM	5.0	730 U	UG/KG
BROMOMETHANE	5.0	730 U	UG/KG
2-BUTANONE (MEK)	10	1500 U	UG/KG
CARBON DISULFIDE	10	1500 U	UG/KG
CARBON TETRACHLORIDE	5.0	730 U	UG/KG
CHLOROBENZENE	5.0	730 U	UG/KG
CHLOROETHANE	5.0	730 U	UG/KG
CHLOROFORM	5.0	730 U	UG/KG
CHLOROMETHANE	5.0	730 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	730 U	UG/KG
1,1-DICHLOROETHANE	5.0	730 U	UG/KG
1,2-DICHLOROETHANE	5.0	730 U	UG/KG
1,1-DICHLOROETHENE	5.0	730 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4400	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	730 U	UG/KG
1,2-DICHLOROPROPANE	5.0	730 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	730 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	730 U	UG/KG
ETHYLBENZENE	5.0	730 U	UG/KG
2-HEXANONE	10	1500 U	UG/KG
METHYLENE CHLORIDE	5.0	730 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1500 U	UG/KG
STYRENE	5.0	730 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	730 U	UG/KG
TETRACHLOROETHENE	5.0	730 U	UG/KG
TOLUENE	5.0	730 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	340 J	UG/KG
1,1,2-TRICHLOROETHANE	5.0	730 U	UG/KG
TRICHLOROETHENE	5.0	8600	UG/KG
VINYL CHLORIDE	5.0	360 J	UG/KG
O-XYLENE	5.0	730 U	UG/KG
M+P-XYLENE	5.0	730 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	102	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	106	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP3-S1MIDS

Lab Name: cas/roch Contract: SEARB
Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
Matrix: (soil/water) SOIL Lab Sample ID: 698897 125.0
Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3288.D
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 13.9 Date Analyzed: 12/24/03
GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001120-21-4	Undecane	22.44	810	JN
2. 000112-40-3	Dodecane	24.69	730	JN

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL

Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S1BOTT-S

Date Sampled : 12/24/03 11:03 Order #: 698898 Sample Matrix: SOIL/SEDIMENT
 Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 77.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	38	UG/KG
BENZENE	5.0	6.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	6.5 U	UG/KG
BROMOFORM	5.0	6.5 U	UG/KG
BROMOMETHANE	5.0	6.5 U	UG/KG
2-BUTANONE (MEK)	10	3.8 J	UG/KG
CARBON DISULFIDE	10	13 U	UG/KG
CARBON TETRACHLORIDE	5.0	6.5 U	UG/KG
CHLOROBENZENE	5.0	6.5 U	UG/KG
CHLOROETHANE	5.0	6.5 U	UG/KG
CHLOROFORM	5.0	6.5 U	UG/KG
CHLOROMETHANE	5.0	6.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	6.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.8	UG/KG
1,2-DICHLOROETHANE	5.0	6.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	6.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	26	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	6.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	6.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	6.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	6.5 U	UG/KG
ETHYLBENZENE	5.0	6.5 U	UG/KG
2-HEXANONE	10	13 U	UG/KG
METHYLENE CHLORIDE	5.0	6.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	13 U	UG/KG
STYRENE	5.0	6.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	6.5 U	UG/KG
TETRACHLOROETHENE	5.0	6.5 U	UG/KG
TOLUENE	5.0	1.4 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	6.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	6.5 U	UG/KG
TRICHLOROETHENE	5.0	21	UG/KG
VINYL CHLORIDE	5.0	17	UG/KG
O-XYLENE	5.0	2.2 J	UG/KG
M+P-XYLENE	5.0	6.5 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	%

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

P3-S1BOTTSDL

Lab Name: CAS-ROC Contract: SEAR8

Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895

Matrix: (soil/water) SOIL Lab Sample ID: 698898 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3811.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 23 Date Analyzed: 12/26/03

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 50 1.0 (BA1/26)

Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 20

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Hydrocarbon	17.93	33	JD
2. 017301-94-9	Nonane, 4-methyl-	18.33	100	JND
3. 005911-04-6	Nonane, 3-methyl-	18.59	31	JND
4. 002847-72-5	Decane, 4-methyl-	19.88	120	JND
5. 001678-93-9	Cyclohexane, butyl-	20.67	77	JND
6.	Unknown Hydrocarbon	21.80	99	JD
7.	Unknown Alkane	22.15	63	JD
8.	Unknown Hydrocarbon	22.29	54	JD
9.	Unknown Alkane	22.42	88	JD
10.	Unknown Hydrocarbon	22.78	79	JD
11.	Unknown Alkane	22.99	100	JD
12.	Unknown Hydrocarbon	23.13	180	JD
13.	Unknown Hydrocarbon	23.58	69	JD
14.	Unknown Hydrocarbon	24.21	39	JD
15. 006044-71-9	Dodecane, 6-methyl-	24.31	210	JND
16.	Unknown Hydrocarbon	24.62	38	JD
17.	Unknown Hydrocarbon	24.96	42	JD
18.	Unknown Cyclic Alkane	25.55	98	JD
19.	Unknown Alkane	25.68	120	JD
20.	Unknown Alkane	28.39	38	JD

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S2BOTTs

Date Sampled : 12/24/03 11:10 Order #: 698899 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 85.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 5.00			Dry Weight
ACETONE	20	29 J	UG/KG
BENZENE	5.0	29 U	UG/KG
BROMODICHLOROMETHANE	5.0	29 U	UG/KG
BROMOFORM	5.0	29 U	UG/KG
BROMOMETHANE	5.0	29 U	UG/KG
2-BUTANONE (MEK)	10	58 U	UG/KG
CARBON DISULFIDE	10	58 U	UG/KG
CARBON TETRACHLORIDE	5.0	29 U	UG/KG
CHLOROBENZENE	5.0	29 U	UG/KG
CHLOROETHANE	5.0	29 U	UG/KG
CHLOROFORM	5.0	29 U	UG/KG
CHLOROMETHANE	5.0	29 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	29 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.5 J	UG/KG
1,2-DICHLOROETHANE	5.0	29 U	UG/KG
1,1-DICHLOROETHENE	5.0	29 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	29 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	29 U	UG/KG
1,2-DICHLOROPROPANE	5.0	29 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	29 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	29 U	UG/KG
ETHYLBENZENE	5.0	20 J	UG/KG
2-HEXANONE	10	58 U	UG/KG
METHYLENE CHLORIDE	5.0	29 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	58 U	UG/KG
STYRENE	5.0	29 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	29 U	UG/KG
TETRACHLOROETHENE	5.0	29 U	UG/KG
TOLUENE	5.0	29 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	29 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	29 U	UG/KG
TRICHLOROETHENE	5.0	8.0 J	UG/KG
VINYL CHLORIDE	5.0	29 U	UG/KG
O-XYLENE	5.0	22 J	UG/KG
M+P-XYLENE	5.0	21 J	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

P3-S2BOTTS DL

Lab Name: CAS-ROC Contract: SEARB

Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698899

Matrix: (soil/water) SOIL Lab Sample ID: 698899 5.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3810.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 14.5 Date Analyzed: 12/26/03

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 5.0

Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 20

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Alkane	15.65	390	JD
2. 002216-33-3	Octane, 3-methyl-	15.89	370	JND
3.	Unknown Hydrocarbon	17.81	420	JD
4.	Unknown Hydrocarbon	17.93	440	JD
5. 017301-94-9	Nonane, 4-methyl-	18.33	2600	JND
6. 015869-94-0	Octane, 3,6-dimethyl-	18.59	760	JND
7. 002847-72-5	Decane, 4-methyl-	19.89	600	JND
8. 001678-93-9	Cyclohexane, butyl-	20.68	440	JND
9. 013151-35-4	Decane, 5-methyl-	20.73	450	JND
10. 001120-21-4	Undecane	21.72	680	JND
11.	Unknown Hydrocarbon	22.14	470	JD
12.	Unknown Hydrocarbon	22.30	470	JD
13.	Unknown Alkane	22.42	540	JD
14.	Unknown Hydrocarbon	22.77	390	JD
15.	Unknown Alkane	23.00	650	JD
16.	Unknown Hydrocarbon	23.12	1300	JD
17.	Unknown Hydrocarbon	23.58	400	JD
18. 017301-23-4	Undecane, 2,6-dimethyl-	24.31	850	JND
19.	Unknown Hydrocarbon	25.56	650	JD
20. 054105-67-8	Heptadecane, 2,6-dimethyl-	25.69	450	JND

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP1-S3BOTT-S

Date Sampled : 12/24/03 10:50 Order #: 698900 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 84.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	6.3 J	UG/KG
BENZENE	5.0	5.9 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.9 U	UG/KG
BROMOFORM	5.0	5.9 U	UG/KG
BROMOMETHANE	5.0	5.9 U	UG/KG
2-BUTANONE (MEK)	10	1.2 J	UG/KG
CARBON DISULFIDE	10	12 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.9 U	UG/KG
CHLOROBENZENE	5.0	5.9 U	UG/KG
CHLOROETHANE	5.0	5.9 U	UG/KG
CHLOROFORM	5.0	5.9 U	UG/KG
CHLOROMETHANE	5.0	5.9 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.9 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.9 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
ETHYLBENZENE	5.0	5.9 U	UG/KG
2-HEXANONE	10	12 U	UG/KG
METHYLENE CHLORIDE	5.0	5.9 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG
STYRENE	5.0	5.9 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.9 U	UG/KG
TETRACHLOROETHENE	5.0	5.9 U	UG/KG
TOLUENE	5.0	5.9 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.9 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.9 U	UG/KG
TRICHLOROETHENE	5.0	5.9 U	UG/KG
VINYL CHLORIDE	5.0	5.9 U	UG/KG
O-XYLENE	5.0	5.9 U	UG/KG
M+P-XYLENE	5.0	5.9 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	92	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	95	%

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP1-S3BOTTS

Lab Name: CAS-ROC Contract: SEARB
Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
Matrix: (soil/water) SOIL Lab Sample ID: 698900 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3812.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 15.9 Date Analyzed: 12/26/03
GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL

Reported: 01/28/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP1-S3BOTT-S

Date Sampled : 12/24/03 10:50 Order #: 698900 Sample Matrix: SOIL/SEDIMENT
 Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 84.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	6.3 J [✓]	UG/KG
BENZENE	5.0	5.9 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.9 U	UG/KG
BROMOFORM	5.0	5.9 U	UG/KG
BROMOMETHANE	5.0	5.9 U	UG/KG
2-BUTANONE (MEK)	10	1.2 J [✓]	UG/KG
CARBON DISULFIDE	10	12 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.9 U	UG/KG
CHLOROBENZENE	5.0	5.9 U	UG/KG
CHLOROETHANE	5.0	5.9 U	UG/KG
CHLOROFORM	5.0	5.9 U	UG/KG
CHLOROMETHANE	5.0	5.9 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.9 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.9 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
ETHYLBENZENE	5.0	5.9 U	UG/KG
2-HEXANONE	10	12 U	UG/KG
METHYLENE CHLORIDE	5.0	5.9 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG
STYRENE	5.0	5.9 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.9 U	UG/KG
TETRACHLOROETHENE	5.0	5.9 U	UG/KG
TOLUENE	5.0	5.9 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.9 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.9 U	UG/KG
TRICHLOROETHENE	5.0	5.9 U	UG/KG
VINYL CHLORIDE	5.0	5.9 U	UG/KG
O-XYLENE	5.0	5.9 U	UG/KG
M+P-XYLENE	5.0	5.9 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	92	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	95	%

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP1-S3BOTTTS

Lab Name: CAS-ROC Contract: SEARB

Lab Code: 10145 Case No.: R3-19657 SAS No.: SDG No.: 698895

Matrix: (soil/water) SOIL Lab Sample ID: 698900 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3812.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 15.9 Date Analyzed: 12/26/03

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 02/03/04

Sear-Brown Group
 Project Reference: BUELL IRM
 Client Sample ID : TRIP BLANK

Date Sampled : 12/24/03 Order #: 698906 Sample Matrix: WATER
 Date Received: 12/24/03 Submission #: R2319657 Analytical Run 99165

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(83 - 118 %)	98	%
TOLUENE-D8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	111	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLK

Lab Name: cas/roch Contract: SEARB
Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
Matrix: (soil/water) WATER Lab Sample ID: 698906 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3311.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/26/03
GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-5 9-9.5

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: 700222 2500

Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3362.D

Level: (low/med) MED Date Received: 01/02/04

% Moisture: not dec. 11.4 Date Analyzed: 01/09/04

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 10 2500

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	28000	U
75-01-4	Vinyl chloride	28000	U
74-83-9	Bromomethane	28000	U
75-00-3	Chloroethane	28000	U
75-35-4	1,1-Dichloroethene	28000	U
67-64-1	Acetone	28000	U
75-15-0	Carbon disulfide	28000	U
75-09-2	Methylene chloride	28000	U
156-60-5	trans-1,2-Dichloroethene	28000	U
75-34-3	1,1-Dichloroethane	28000	U
156-59-2	cis-1,2-Dichloroethene	28000	U
78-93-3	2-Butanone	28000	U
67-66-3	Chloroform	28000	U
107-06-2	1,2-Dichloroethane	28000	U
71-55-6	1,1,1-Trichloroethane	3800	J
56-23-5	Carbon tetrachloride	28000	U
71-43-2	Benzene	28000	U
79-01-6	Trichloroethene	350000	
78-87-5	1,2-Dichloropropane	28000	U
75-27-4	Bromodichloromethane	28000	U
10061-01-5	cis-1,3-Dichloropropene	28000	U
10061-02-6	trans-1,3-Dichloropropene	28000	U
79-00-5	1,1,2-Trichloroethane	28000	U
124-48-1	Dibromochloromethane	28000	U
75-25-2	Bromoform	28000	U
108-10-1	4-Methyl-2-pentanone	28000	U
108-88-3	Toluene	28000	U
127-18-4	Tetrachloroethene	28000	U
591-78-6	2-Hexanone	28000	U
108-90-7	Chlorobenzene	28000	U
100-41-4	Ethylbenzene	28000	U
108-38-3/106-42-3	(m+p) Xylene	28000	U
95-47-6	o-Xylene	28000	U
100-42-5	Styrene	28000	U
79-34-5	1,1,2,2-Tetrachloroethane	28000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-5 9-9.5

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R4-19774 SAS No.: SDG No.: 700222
Matrix: (soil/water) SOIL Lab Sample ID: 700222 2500
Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3362.D
Level: (low/med) MED Date Received: 01/02/04
% Moisture: not dec. 11.4 Date Analyzed: 01/09/04
GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 102500
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001120-21-4	Undecane	12.90	25000	JN
2. 000112-40-3	Dodecane	13.57	24000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-5 12-12.6

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: 700225 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3419.D

Level: (low/med) LOW Date Received: 01/02/04

% Moisture: not dec. 18.3 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
74-83-9	Bromomethane	12	U
67-64-1	Acetone	6	J
75-09-2	Methylene chloride	1	J
75-15-0	Carbon disulfide	12	U
78-93-3	2-Butanone	12	U
156-59-2	cis-1,2-Dichloroethene	9	J
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	32	
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
108-38-3/106-42-3	(m+p)Xylene	12	U
100-42-5	Styrene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
95-47-6	o-Xylene	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
78-87-5	1,2-Dichloropropane	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-5 12-12.6

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700225 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3419.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 18.3 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	26.16	9	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-6 10-10.5

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: 700226 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3420.D

Level: (low/med) LOW Date Received: 01/02/04

% Moisture: not dec. 18.7 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U	U
75-01-4	Vinyl chloride	12	U	U
75-00-3	Chloroethane	12	U	U
74-83-9	Bromomethane	12	U	U
67-64-1	Acetone	5	J	J
75-09-2	Methylene chloride	2	J	J
75-15-0	Carbon disulfide	12	U	U
78-93-3	2-Butanone	12	U	U
156-59-2	cis-1,2-Dichloroethene	7	J	J
67-66-3	Chloroform	12	U	U
107-06-2	1,2-Dichloroethane	12	U	U
71-55-6	1,1,1-Trichloroethane	12	U	U
71-43-2	Benzene	12	U	U
79-01-6	Trichloroethene	12	J	J
75-27-4	Bromodichloromethane	12	U	U
10061-01-5	cis-1,3-Dichloropropene	12	U	U
10061-02-6	trans-1,3-Dichloropropene	12	U	U
79-00-5	1,1,2-Trichloroethane	12	U	U
124-48-1	Dibromochloromethane	12	U	U
75-25-2	Bromoform	12	U	U
108-10-1	4-Methyl-2-pentanone	12	U	U
108-88-3	Toluene	12	U	U
591-78-6	2-Hexanone	12	U	U
127-18-4	Tetrachloroethene	12	U	U
108-90-7	Chlorobenzene	12	U	U
100-41-4	Ethylbenzene	12	U	U
108-38-3/106-42-3	(m+p)Xylene	12	U	U
100-42-5	Styrene	12	U	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U	U
95-47-6	o-Xylene	12	U	U
156-60-5	trans-1,2-Dichloroethene	12	U	U
75-35-4	1,1-Dichloroethene	12	U	U
75-34-3	1,1-Dichloroethane	12	U	U
56-23-5	Carbon tetrachloride	12	U	U
78-87-5	1,2-Dichloropropane	12	U	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-6 10-10.5

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222
Matrix: (soil/water) SOIL Lab Sample ID: 700226 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3420.D
Level: (low/med) LOW Date Received: 01/02/04
% Moisture: not dec. 18.7 Date Analyzed: 01/06/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-8 7.5-8S

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19774 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: 700227 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3459.D

Level: (low/med) MED Date Received: 01/02/04

% Moisture: not dec. 18.8 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 125.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		1500	U
75-01-4	Vinyl chloride		1500	U
75-00-3	Chloroethane		1500	U
74-83-9	Bromomethane		1500	U
67-64-1	Acetone		1500	U
75-09-2	Methylene chloride		1500	U
75-15-0	Carbon disulfide		1500	U
78-93-3	2-Butanone		1500	U
156-59-2	cis-1,2-Dichloroethene		1600	
67-66-3	Chloroform		1500	U
107-06-2	1,2-Dichloroethane		1500	U
71-55-6	1,1,1-Trichloroethane		4100	
71-43-2	Benzene		1500	U
79-01-6	Trichloroethene	320,000	~~260000~~	~~E~~
75-27-4	Bromodichloromethane		1500	U
10061-01-5	cis-1,3-Dichloropropene		1500	U
10061-02-6	trans-1,3-Dichloropropene		1500	U
79-00-5	1,1,2-Trichloroethane		1500	U
124-48-1	Dibromochloromethane		1500	U
75-25-2	Bromoform		1500	U
108-10-1	4-Methyl-2-pentanone		1500	U
108-88-3	Toluene		270	J
591-78-6	2-Hexanone		1500	U
127-18-4	Tetrachloroethene		2000	
108-90-7	Chlorobenzene		1500	U
100-41-4	Ethylbenzene		1500	U
108-38-3/106-42-3	(m+p)Xylene		160	J
100-42-5	Styrene		1500	U
79-34-5	1,1,2,2-Tetrachloroethane		1500	U
95-47-6	o-Xylene		1500	U
156-60-5	trans-1,2-Dichloroethene		1500	U
75-35-4	1,1-Dichloroethene		1500	U
75-34-3	1,1-Dichloroethane		1500	U
56-23-5	Carbon tetrachloride		1500	U
78-87-5	1,2-Dichloropropane		1500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-8 7.5-8S

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700227 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3459.D
 Level: (low/med) MED Date Received: 01/02/04
 % Moisture: not dec. 18.8 Date Analyzed: 01/08/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.95	9400	JN
2. 002847-72-5	Decane, 4-methyl-	20.55	2200	JN
3. 006975-98-0	Decane, 2-methyl-	21.55	1800	JN
4. 013151-34-3	Decane, 3-methyl-	21.74	1900	JN
5. 001120-21-4	Undecane	22.39	15000	JN
6.	unknown hydrocarbon	22.59	3100	J
7.	unknown hydrocarbon	22.83	3500	J
8.	unknown hydrocarbon	23.45	2100	J
9.	unknown hydrocarbon	23.63	2900	J
10. 004292-92-6	Cyclohexane, pentyl-	23.69	1900	JN
11.	unknown hydrocarbon	24.05	3000	J
12. 000112-40-3	Dodecane	24.63	5300	JN
13. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.81	2500	JN
14.	unknown hydrocarbon	26.16	1900	J
15. 000629-50-5	Tridecane	26.61	2200	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-10 19.8-20

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: 700230 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3421.D

Level: (low/med) LOW Date Received: 01/02/04

% Moisture: not dec. 12.2 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
74-83-9	Bromomethane	11	U
67-64-1	Acetone	12	
75-09-2	Methylene chloride	2	J
75-15-0	Carbon disulfide	11	U
78-93-3	2-Butanone	11	U
156-59-2	cis-1,2-Dichloroethene	19	
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
71-43-2	Benzene	11	U
79-01-6	Trichloroethene	20	
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
124-48-1	Dibromochloromethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
108-38-3/106-42-3	(m+p)Xylene	11	U
100-42-5	Styrene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
95-47-6	o-Xylene	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
78-87-5	1,2-Dichloropropane	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-10 19.8-20

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
Matrix: (soil/water) SOIL Lab Sample ID: 700230 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3421.D
Level: (low/med) LOW Date Received: 01/02/04
% Moisture: not dec. 12.2 Date Analyzed: 01/06/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-1-W

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3569.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	14		
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	14		
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	7	J	
156-59-2	cis-1,2-Dichloroethene	33		
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
79-01-6	Trichloroethene	33		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	8	J	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	1	J	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	8	J	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-1-W

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3569.D
Level: (low/med) LOW Date Received: 01/14/04
% Moisture: not dec. Date Analyzed: 01/19/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-2-W

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702134 100.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3568.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 100.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1000	U
75-01-4	Vinyl chloride		440	J
75-00-3	Chloroethane		1000	U
74-83-9	Bromomethane		1000	U
67-64-1	Acetone		1000	U
75-09-2	Methylene chloride		1000	U
75-15-0	Carbon disulfide		1000	U
78-93-3	2-Butanone		1000	U
156-59-2	cis-1,2-Dichloroethene		15000	U
67-66-3	Chloroform		1000	U
107-06-2	1,2-Dichloroethane		1000	U
71-55-6	1,1,1-Trichloroethane		200	J
71-43-2	Benzene		1000	U
79-01-6	Trichloroethene		8100	U
75-27-4	Bromodichloromethane		1000	U
10061-01-5	cis-1,3-Dichloropropene		1000	U
10061-02-6	trans-1,3-Dichloropropene		1000	U
79-00-5	1,1,2-Trichloroethane		1000	U
124-48-1	Dibromochloromethane		1000	U
75-25-2	Bromoform		1000	U
108-10-1	4-Methyl-2-pentanone		1000	U
108-88-3	Toluene		1000	U
591-78-6	2-Hexanone		1000	U
127-18-4	Tetrachloroethene		1000	U
108-90-7	Chlorobenzene		1000	U
100-41-4	Ethylbenzene		1000	U
108-38-3/106-42-3	(m+p)Xylene		1000	U
100-42-5	Styrene		1000	U
79-34-5	1,1,2,2-Tetrachloroethane		1000	U
95-47-6	o-Xylene		1000	U
156-60-5	trans-1,2-Dichloroethene		1000	U
75-35-4	1,1-Dichloroethene		1000	U
75-34-3	1,1-Dichloroethane		120	J
56-23-5	Carbon tetrachloride		1000	U
78-87-5	1,2-Dichloropropane		1000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-2-W

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: 702134 100.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3568.D
Level: (low/med) LOW Date Received: 01/14/04
% Moisture: not dec. Date Analyzed: 01/19/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLK

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702135 1.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3579.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		10	U
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide		10	U
78-93-3	2-Butanone		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
124-48-1	Dibromochloromethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
108-38-3/106-42-3	(m+p)Xylene		10	U
100-42-5	Styrene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
95-47-6	o-Xylene		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
78-87-5	1,2-Dichloropropane		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLK

Lab Name: CASI/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: 702135 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3579.D
Level: (low/med) LOW Date Received: 01/14/04
% Moisture: not dec. _____ Date Analyzed: 01/20/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Appendix H

Sear-Brown and DEC IRM Excavation Soil Analytical Summary Reports



A FULL SERVICE ENVIRONMENTAL LABORATORY

February 2, 2004

Mr. David Belaskas
Sear-Brown Group
85 Metro Park
Rochester, NY 14623

PROJECT: BUELL #16059 IRM
Submission #: R2319595

Dear Mr. Belaskas

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script that reads 'Karen Bunker'.

Karen Bunker
Project Manager

Enc.

cc Ms. Judy Harry
Data Validation Services
PO Box 208
Cobble Creek Rd.
North Creek, NY 12853



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Sear-Brown Group
Project Reference: BUELL #16059 IRM
Lab Submission # : R2319595
Project Manager : Karen Bunker
Reported : 02/02/04

Report Contains a total of 110 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *[Signature]*

CASE NARRATIVE

COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2319595
SDG#: 697119

Water samples were collected by Sear Brown over the period from 12/23-30/03 and received at CAS on 12/24-31/03. All samples were received unbroken, in good condition at a cooler temperature range of 0-1°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were no used on the coolers. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Fifteen (15) soils were analyzed using NYS ASP Method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were also performed.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable except for except for location BU-NEWALL-S (CAS Order # 697128). The BFB was out high (116% limits 59-113) due to matrix interference of hydrocarbons which caused distortion. The Internal standards and first and second surrogates were within QC limits. The sample was not reanalyzed since a medium level dilution would not have provided better results and a lower dilution was not an option due to the interferences. The Form 2B has the recovery flagged as "***".

All samples were run within holding time for ASP protocol of 10 days from VTSR except for locations:

<u>Client ID</u>	<u>CAS Order #</u>	<u>Days outside Holding time</u>
BU-NWWALL-BOTT-S	697119	1
BU-NWWALL-SHAL-S	697121	1
BU-PIER-NSHAL-S	697123	2
BU-PIER-NMID-S	697126	2

Site Specific QC was performed on location BU-WWALLS (CAS Order # 698905). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Locations BU-PIER-NSHAL-S and BU-SEBOTT-S (CAS Order #s 697123 and 698903 respectively) had hits above the calibration range of the instrument. The compounds have been flagged as "E". The samples were repeated at dilutions appropriate for the concentrations. Both sets of data are included in the package. The diluted samples are denoted with the suffix "DL". The hits in the diluted samples are flagged as "D".

Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

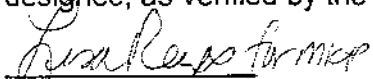
All Method Blanks were free from Target Compound contamination.

Page 2
COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2319595
SDG#: 697119

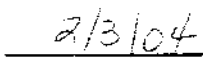
No Cooler Blank was set up with this SDG due to a laboratory error.

No other problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



Michael K. Perry
Laboratory Manager


Date

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

[illegible]



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

SR #

CAS Contact

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																													
Project Manager		Report CC		PRESERVATIVE		NUMBER OF CONTAINERS		GCMS VOAS		GCMS SVOAS		PESTICIDES		PCBs		METALS, TOTAL		METALS, DISSOLVED		TARGET COMPOUND LIST		VOCs and TICs by ASP		PRESERVATIVE KEY									
Company/Address		Phone #		FAX #		Sampler's Printed Name		LAB ID		DATE		SAMPLING TIME		MATRIX		GCMS VOAS		GCMS SVOAS		PESTICIDES		PCBs		METALS, TOTAL		METALS, DISSOLVED		TARGET COMPOUND LIST		VOCs and TICs by ASP		PRESERVATIVE KEY	
BUELL IRM		16059																															
M. STORINSKY / D. BELASKAS		A. KRAUSE																															
SEAR-BROWN																																	
85 METRO PARK																																	
ROCHESTER, NEW YORK		14607																															
Phone #		(585) 475-1440		FAX #		(585) 424-5951																											
Sampler's Signature		April M Krause		Sampler's Printed Name		APRIL S KRAUSE																											
CLIENT SAMPLE ID		6098901		DATE		12/23/03		1030		SOIL																							
BU - SWALL-S		6098902		DATE		12/23/03		1033		SOIL																							
BU - SENALL-S		6098903		DATE		12/23/03		1035		SOIL																							
BU - SEBOTT-S		6098904		DATE		12/23/03		0920		SOIL																							
BU - SWALL-S		6098905		DATE		12/23/03		0925		SOIL																							
BU - WWAHL-S		6098905		DATE		12/23/03		0925		SOIL																							
BU - MS/MSD-S				DATE		12/23/03		0925		SOIL																							
SPECIAL INSTRUCTIONS/COMMENTS		ASP CATEGORY B DEVEVERABLES																															
Metals																																	
See only																																	
SAMPLE RECEIPT: CONDITION/COOLER TEMP.																																	
RELINQUISHED BY		RECEIVED BY																															
Signature		Signature																															
Printed Name		Printed Name																															
Firm		Firm																															
Date/Time		Date/Time																															
12/24/03 1440		12/24/03 1440																															
Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client																																	



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
NELAP Accredited

New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID # 91012
West Virginia ID # 292

Cooler Receipt And Preservation Check Form

Project/Client Smv BrownSubmission Number R2-191057R2319595
KB 12/24/03Cooler received on 12/24/03 by QNA COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 15°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below NO No No No NoDate/Time Temperatures Taken: 12/24/03 1445Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 12/24/03 by: QNA

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 2. Did all bottle labels and tags agree with custody papers? YES NO
 3. Were correct containers used for the tests indicated? YES NO
 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A
- Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR #

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Project Name BUELL IRM		Project Number 14059		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager M. STORONSKY / D. BELASKAS		Report CC A. KRAUSE		PRESERVATIVE 0											
Company/Address SEAR-BROWN															
85 METRO PARK															
ROCHESTER, NY 14623															
Phone # 585-475-1440		FAX # 585-424-5951													
Sample Signature <i>[Signature]</i>		Sample Printed Name APRIL S. KRAUSE													
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	TIME	MATRIX	NUMBER OF CONTAINERS										
B4-NINWALL-BOTT-S	6097119	12/26/03	1250	SOIL	2	GC/MS VOAS □ 8250 □ 624 □ CLP					GC/MS SVOAS □ 8270 □ 625 □ CLP				
B4-NINWALL-SHAL-S	6097121	12/26/03	1250	SOIL	2	GC/MS VOAS □ 8270 □ 625 □ CLP					GC/MS SVOAS □ 8270 □ 625 □ CLP				
B4-PER-NSHAL-S	6097123	12/26/03	1255	SOIL	2	GC/MS VOAS □ 8270 □ 625 □ CLP					GC/MS SVOAS □ 8270 □ 625 □ CLP				
B4-PER-NMID-S	6097126	12/26/03	1257	SOIL	2	GC/MS VOAS □ 8270 □ 625 □ CLP					GC/MS SVOAS □ 8270 □ 625 □ CLP				
B4-NINWALL-S	6097127	12/26/03	1450	SOIL	2	GC/MS VOAS □ 8270 □ 625 □ CLP					GC/MS SVOAS □ 8270 □ 625 □ CLP				
B4-NINWALL-S	6097128	12/26/03	1455	SOIL	2	GC/MS VOAS □ 8270 □ 625 □ CLP					GC/MS SVOAS □ 8270 □ 625 □ CLP				
B4-EXCDUP-S	6097129	12/26/03		SOIL	2	GC/MS VOAS □ 8270 □ 625 □ CLP					GC/MS SVOAS □ 8270 □ 625 □ CLP				
SPECIAL INSTRUCTIONS/COMMENTS Metals				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE				REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report Edit: Yes No				INVOICE INFORMATION PO# BILL TO: SUBMISSION # R2319595 RECEIVED BY			
See QAPP ☐				CUSTODY SEALS: Y N				RECEIVED BY				RELINQUISHED BY			
SAMPLE RECEIPT: CONDITION/COOLER TEMP. CCC				RECEIVED BY				RELINQUISHED BY				RELINQUISHED BY			
Signature <i>[Signature]</i>				Signature <i>[Signature]</i>				Signature <i>[Signature]</i>				Signature <i>[Signature]</i>			
Printed Name APRIL S. KRAUSE				Printed Name APRIL S. KRAUSE				Printed Name APRIL S. KRAUSE				Printed Name APRIL S. KRAUSE			
Firm CAS				Firm CAS				Firm CAS				Firm CAS			
Date/Time 12/27/03 1115				Date/Time 12/27/03 1115				Date/Time 12/27/03 1115				Date/Time 12/27/03 1115			

Cooler Receipt And Preservation Check Form

Project/Client Sear-Brown Submission Number 19545

Cooler received on 12/27/03 by MOO COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 0

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 12/27/03 1120

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 12/29/03 by: BL

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 12-30-03

ANALYSIS REQUESTED

[illegible]

RELINQUISHED BY:  Signature <u>David W. Brown</u> Printed Name <u>DAVID W. BROWN</u> Firm <u>12/31/03</u> <u>OBIS</u> Date/Time	RECEIVED BY:  Signature <u>Gregory D. Esmerian</u> Printed Name <u>GAS</u> Firm <u>12-31-03</u> <u>8:15</u> Date/Time	TURNAROUND REQUIREMENTS 24 hr. ___ 48 hr. ___ 5 day ___ ☒ Standard (10-15 working days) ___ Provide Verbal Preliminary Results ☒ Provide FAX Preliminary Results Requested Report Date _____	REPORT REQUIREMENTS ___ 1. Routine Report ___ 2. Routine Rep. w/CASE Narrative ___ 3. EPA Level III Validatable Package ___ 4. N.J. Reduced Deliverables Level IV ☒ NY ASP/CLP Deliverables ___ 6. Site specific QC.	INVOICE INFORMATION: P.O. #: _____ Bill To: _____ Shipping Via: _____ Shipping #: _____ Temperature: _____ Submission No: <u>1031</u>	SAMPLE RECEIPT:

METALS

PPL ☐ AE Only ☐ BN Only ☐ Special List 11 Acz for dry weight
for first two samples

ASP CATEGORY B DELIVERABLES

Cooler Receipt And Preservation Check Form

Project/Client Sear Brown Submission Number R2-19595

Cooler received on 12-31-03 by: KE COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 12

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 12-31-03 @ 9:22

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 12-31-03 by: KE

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 2. Did all bottle labels and tags agree with custody papers? YES NO
 3. Were correct containers used for the tests indicated? YES NO
 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A
- Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WWALL-BOTT

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697119 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3438.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 16.2 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	24	U
75-01-4	Vinyl chloride	11	J
75-00-3	Chloroethane	24	U
74-83-9	Bromomethane	24	U
67-64-1	Acetone	53	
75-09-2	Methylene chloride	24	U
75-15-0	Carbon disulfide	24	U
78-93-3	2-Butanone	24	U
156-59-2	cis-1,2-Dichloroethene	5	J
67-66-3	Chloroform	24	U
107-06-2	1,2-Dichloroethane	24	U
71-55-6	1,1,1-Trichloroethane	24	U
71-43-2	Benzene	3	J
79-01-6	Trichloroethene	9	J
75-27-4	Bromodichloromethane	24	U
10061-01-5	cis-1,3-Dichloropropene	24	U
10061-02-6	trans-1,3-Dichloropropene	24	U
79-00-5	1,1,2-Trichloroethane	24	U
124-48-1	Dibromochloromethane	24	U
75-25-2	Bromoform	24	U
108-10-1	4-Methyl-2-pentanone	24	U
108-88-3	Toluene	24	U
591-78-6	2-Hexanone	24	U
127-18-4	Tetrachloroethene	24	U
108-90-7	Chlorobenzene	24	U
100-41-4	Ethylbenzene	24	U
108-38-3/106-42-3	(m+p)Xylene	24	U
100-42-5	Styrene	24	U
79-34-5	1,1,2,2-Tetrachloroethane	24	U
95-47-6	o-Xylene	24	U
156-60-5	trans-1,2-Dichloroethene	24	U
75-35-4	1,1-Dichloroethene	24	U
75-34-3	1,1-Dichloroethane	10	J
56-23-5	Carbon tetrachloride	24	U
78-87-5	1,2-Dichloropropane	24	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WWALL-BOTT

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697119 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3438.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 16.2 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.95	210	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	340	JN
3. 017302-32-8	Nonane, 3,7-dimethyl-	21.03	160	JN
4. 001678-93-9	Cyclohexane, butyl-	21.25	140	JN
5.	unknown hydrocarbon	22.30	310	J
6.	unknown hydrocarbon	22.83	400	J
7.	unknown alkane	22.97	140	J
8. 017301-32-5	Undecane, 4,7-dimethyl-	23.10	140	JN
9.	unknown hydrocarbon	23.46	260	J
10.	unknown hydrocarbon	23.63	500	J
11. 004292-92-6	Cyclohexane, pentyl-	23.71	270	JN
12.	unknown hydrocarbon	24.07	270	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	220	JN
14.	unknown hydrocarbon	25.16	210	J
15.	unknown alkane	26.16	190	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NSHAL-S

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697123 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3453.D

Level: (low/med) MED Date Received: 12/27/03

% Moisture: not dec. 15.4 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 (125.0)

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	1500	U
75-01-4	Vinyl chloride	1500	U
75-00-3	Chloroethane	1500	U
74-83-9	Bromomethane	1500	U
67-64-1	Acetone	1500	U
75-09-2	Methylene chloride	1500	U
75-15-0	Carbon disulfide	1500	U
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	1700	
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
71-55-6	1,1,1-Trichloroethane	450	J
71-43-2	Benzene	1500	U
79-01-6	Trichloroethene	100000	E
75-27-4	Bromodichloromethane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	540	J
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	1500	U
108-38-3/106-42-3	(m+p)Xylene	1500	U
100-42-5	Styrene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U
95-47-6	o-Xylene	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-34-3	1,1-Dichloroethane	1500	U
56-23-5	Carbon tetrachloride	1500	U
78-87-5	1,2-Dichloropropane	1500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NSHAL-S

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697123 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3453.D
 Level: (low/med) MED Date Received: 12/27/03
 % Moisture: not dec. 15.4 Date Analyzed: 01/08/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 14

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	19.96	4300	J
2. 002847-72-5	Decane, 4-methyl-	20.57	1200	JN
3.	unknown alkane	21.03	1100	J
4. 001678-93-9	Cyclohexane, butyl-	21.25	1400	JN
5. 000493-02-7	Naphthalene, decahydro-, trans-	22.30	1900	JN
6. 001120-21-4	Undecane	22.40	2400	JN
7.	unknown hydrocarbon	22.84	2100	J
8.	unknown hydrocarbon	23.27	1100	J
9.	unknown hydrocarbon	23.63	2700	J
10. 004292-92-6	Cyclohexane, pentyl-	23.71	1700	JN
11.	unknown hydrocarbon	24.07	2600	J
12.	unknown hydrocarbon	25.21	1000	J
13.	unknown hydrocarbon	26.20	1400	J
14.	unknown hydrocarbon	26.45	1500	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NWWALL-SHALS

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697121 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3439.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 22.6 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 2.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	26	U	
75-01-4	Vinyl chloride	65		
75-00-3	Chloroethane	26	U	
74-83-9	Bromomethane	26	U	
67-64-1	Acetone	29		
75-09-2	Methylene chloride	26	U	
75-15-0	Carbon disulfide	26	U	
78-93-3	2-Butanone	26	U	
156-59-2	cis-1,2-Dichloroethene	89		
67-66-3	Chloroform	26	U	
107-06-2	1,2-Dichloroethane	26	U	
71-55-6	1,1,1-Trichloroethane	26	U	
71-43-2	Benzene	3	J	
79-01-6	Trichloroethene	26	U	
75-27-4	Bromodichloromethane	26	U	
10061-01-5	cis-1,3-Dichloropropene	26	U	
10061-02-6	trans-1,3-Dichloropropene	26	U	
79-00-5	1,1,2-Trichloroethane	26	U	
124-48-1	Dibromochloromethane	26	U	
75-25-2	Bromoform	26	U	
108-10-1	4-Methyl-2-pentanone	26	U	
108-88-3	Toluene	26	U	
591-78-6	2-Hexanone	26	U	
127-18-4	Tetrachloroethene	26	U	
108-90-7	Chlorobenzene	26	U	
100-41-4	Ethylbenzene	26	U	
108-38-3/106-42-3	(m+p)Xylene	26	U	
100-42-5	Styrene	26	U	
79-34-5	1,1,2,2-Tetrachloroethane	26	U	
95-47-6	o-Xylene	26	U	
156-60-5	trans-1,2-Dichloroethene	26	U	
75-35-4	1,1-Dichloroethene	26	U	
75-34-3	1,1-Dichloroethane	22	J	
56-23-5	Carbon tetrachloride	26	U	
78-87-5	1,2-Dichloropropane	26	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NWWALL-SHALS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697121 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3439.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 22.6 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.94	190	JN
2. 002847-72-5	Decane, 4-methyl-	20.56	280	JN
3.	unknown alkane	21.03	130	J
4. 001678-93-9	Cyclohexane, butyl-	21.24	170	JN
5.	unknown hydrocarbon	22.30	250	J
6.	unknown hydrocarbon	22.60	150	J
7. 000506-51-4	1-Tetracosanol	22.83	340	JN
8.	unknown hydrocarbon	23.43	220	J
9.	unknown hydrocarbon	23.63	490	J
10.	unknown hydrocarbon	24.06	220	J
11.	unknown hydrocarbon	24.57	130	J
12. 000767-58-8	Indan, 1-methyl-	24.87	170	JN
13. 006044-71-9	Dodecane, 6-methyl-	24.96	260	JN
14.	unknown hydrocarbon	25.15	210	J
15. 062016-34-6	Octane, 2,3,7-trimethyl-	26.15	250	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NSHAL-SDL

Lab Name: CASIROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697123 625.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3456.D

Level: (low/med) MED Date Received: 12/27/03

% Moisture: not dec. 15.4 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 5.0 625.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	7400	U
75-01-4	Vinyl chloride	7400	U
75-00-3	Chloroethane	7400	U
74-83-9	Bromomethane	7400	U
67-64-1	Acetone	7400	U
75-09-2	Methylene chloride	7400	U
75-15-0	Carbon disulfide	7400	U
78-93-3	2-Butanone	7400	U
156-59-2	cis-1,2-Dichloroethene	2000	JD
67-66-3	Chloroform	7400	U
107-06-2	1,2-Dichloroethane	7400	U
71-55-6	1,1,1-Trichloroethane	7400	U
71-43-2	Benzene	7400	U
79-01-6	Trichloroethene	140000	D
75-27-4	Bromodichloromethane	7400	U
10061-01-5	cis-1,3-Dichloropropene	7400	U
10061-02-6	trans-1,3-Dichloropropene	7400	U
79-00-5	1,1,2-Trichloroethane	7400	U
124-48-1	Dibromochloromethane	7400	U
75-25-2	Bromoform	7400	U
108-10-1	4-Methyl-2-pentanone	7400	U
108-88-3	Toluene	7400	U
591-78-6	2-Hexanone	7400	U
127-18-4	Tetrachloroethene	7400	U
108-90-7	Chlorobenzene	7400	U
100-41-4	Ethylbenzene	7400	U
108-38-3/106-42-3	(m+p)Xylene	7400	U
100-42-5	Styrene	7400	U
79-34-5	1,1,2,2-Tetrachloroethane	7400	U
95-47-6	o-Xylene	7400	U
156-60-5	trans-1,2-Dichloroethene	7400	U
75-35-4	1,1-Dichloroethene	7400	U
75-34-3	1,1-Dichloroethane	7400	U
56-23-5	Carbon tetrachloride	7400	U
78-87-5	1,2-Dichloropropane	7400	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NSHAL-SDL

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697123 625.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3456.D
 Level: (low/med) MED Date Received: 12/27/03
 % Moisture: not dec. 15.4 Date Analyzed: 01/08/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 50 625.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.96	7200	JND
2. 001120-21-4	Undecane	22.39	6100	JND

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NMID-S

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697126 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3457.D

Level: (low/med) MED Date Received: 12/27/03

% Moisture: not dec. 17.4 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 125.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500	U	
75-01-4	Vinyl chloride	1500	U	
75-00-3	Chloroethane	1500	U	
74-83-9	Bromomethane	1500	U	
67-64-1	Acetone	1500	U	
75-09-2	Methylene chloride	1500	U	
75-15-0	Carbon disulfide	1500	U	
78-93-3	2-Butanone	1500	U	
156-59-2	cis-1,2-Dichloroethene	2000		
67-66-3	Chloroform	1500	U	
107-06-2	1,2-Dichloroethane	1500	U	
71-55-6	1,1,1-Trichloroethane	1500	U	
71-43-2	Benzene	1500	U	
79-01-6	Trichloroethene	390	J	
75-27-4	Bromodichloromethane	1500	U	
10061-01-5	cis-1,3-Dichloropropene	1500	U	
10061-02-6	trans-1,3-Dichloropropene	1500	U	
79-00-5	1,1,2-Trichloroethane	1500	U	
124-48-1	Dibromochloromethane	1500	U	
75-25-2	Bromoform	1500	U	
108-10-1	4-Methyl-2-pentanone	1500	U	
108-88-3	Toluene	1500	U	
591-78-6	2-Hexanone	1500	U	
127-18-4	Tetrachloroethene	1500	U	
108-90-7	Chlorobenzene	1500	U	
100-41-4	Ethylbenzene	160	J	
108-38-3/106-42-3	(m+p)Xylene	450	J	
100-42-5	Styrene	1500	U	
79-34-5	1,1,2,2-Tetrachloroethane	1500	U	
95-47-6	o-Xylene	380	J	
156-60-5	trans-1,2-Dichloroethene	1500	U	
75-35-4	1,1-Dichloroethene	1500	U	
75-34-3	1,1-Dichloroethane	1500	U	
56-23-5	Carbon tetrachloride	1500	U	
78-87-5	1,2-Dichloropropane	1500	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NMID-S

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697126 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3457.D

Level: (low/med) MED Date Received: 12/27/03

% Moisture: not dec. 17.4 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 1250

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.96	32000	JN
2. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.76	6700	JN
3. 001678-93-9	Cyclohexane, butyl-	21.23	9500	JN
4. 000141-93-5	Benzene, 1,3-diethyl-	22.18	5600	JN
5.	unknown hydrocarbon	22.29	5600	J
6. 001120-21-4	Undecane	22.39	18000	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.59	8700	JN
8.	unknown hydrocarbon	22.83	9900	J
9.	unknown hydrocarbon	23.26	6900	J
10.	unknown hydrocarbon	23.45	6100	J
11.	unknown hydrocarbon	23.62	10000	J
12. 004292-92-6	Cyclohexane, pentyl-	23.70	6600	JN
13.	unknown hydrocarbon	24.06	9700	J
14. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.81	6200	JN
15.	unknown hydrocarbon	26.45	5800	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NWALL-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697127 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3413.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 22.6 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	26	U
75-01-4	Vinyl chloride	26	U
75-00-3	Chloroethane	26	U
74-83-9	Bromomethane	26	U
67-64-1	Acetone	79	
75-09-2	Methylene chloride	26	U
75-15-0	Carbon disulfide	26	U
78-93-3	2-Butanone	26	U
156-59-2	cis-1,2-Dichloroethene	26	U
67-66-3	Chloroform	26	U
107-06-2	1,2-Dichloroethane	26	U
71-55-6	1,1,1-Trichloroethane	26	U
71-43-2	Benzene	26	U
79-01-6	Trichloroethene	26	U
75-27-4	Bromodichloromethane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
10061-02-6	trans-1,3-Dichloropropene	26	U
79-00-5	1,1,2-Trichloroethane	26	U
124-48-1	Dibromochloromethane	26	U
75-25-2	Bromoform	26	U
108-10-1	4-Methyl-2-pentanone	26	U
108-88-3	Toluene	26	U
591-78-6	2-Hexanone	26	U
127-18-4	Tetrachloroethene	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
108-38-3/106-42-3	(m+p)Xylene	26	U
100-42-5	Styrene	26	U
79-34-5	1,1,2,2-Tetrachloroethane	26	U
95-47-6	o-Xylene	26	U
156-60-5	trans-1,2-Dichloroethene	26	U
75-35-4	1,1-Dichloroethene	26	U
75-34-3	1,1-Dichloroethane	26	U
56-23-5	Carbon tetrachloride	26	U
78-87-5	1,2-Dichloropropane	26	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NWALL-S

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697127 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3413.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 22.6 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown cyclic hydrocarbon	19.96	100	J
2. 002847-72-5	Decane, 4-methyl-	20.58	140	JN
3. 001678-93-9	Cyclohexane, butyl-	21.26	90	JN
4.	unknown hydrocarbon	22.31	150	J
5.	unknown cyclic hydrocarbon	22.48	120	J
6.	unknown hydrocarbon	22.61	210	J
7.	unknown hydrocarbon	22.84	240	J
8. 000527-84-4	Benzene, 1-methyl-2-(1-methylet	22.99	110	JN
9.	unknown hydrocarbon	23.47	130	J
10.	unknown hydrocarbon	23.65	260	J
11.	unknown hydrocarbon	24.07	190	J
12.	unknown hydrocarbon	24.82	91	J
13. 006044-71-9	Dodecane, 6-methyl-	24.97	210	JN
14.	unknown hydrocarbon	25.17	140	J
15. 005911-04-6	Nonane, 3-methyl-	26.16	180	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NEWALL-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697128 5.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3414.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 18.9 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 105.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	62	U
75-01-4	Vinyl chloride	62	U
75-00-3	Chloroethane	62	U
74-83-9	Bromomethane	62	U
67-64-1	Acetone	84	
75-09-2	Methylene chloride	62	U
75-15-0	Carbon disulfide	62	U
78-93-3	2-Butanone	8	J
156-59-2	cis-1,2-Dichloroethene	17	J
67-66-3	Chloroform	62	U
107-06-2	1,2-Dichloroethane	62	U
71-55-6	1,1,1-Trichloroethane	62	U
71-43-2	Benzene	62	U
79-01-6	Trichloroethene	240	
75-27-4	Bromodichloromethane	62	U
10061-01-5	cis-1,3-Dichloropropene	62	U
10061-02-6	trans-1,3-Dichloropropene	62	U
79-00-5	1,1,2-Trichloroethane	62	U
124-48-1	Dibromochloromethane	62	U
75-25-2	Bromoform	62	U
108-10-1	4-Methyl-2-pentanone	62	U
108-88-3	Toluene	62	U
591-78-6	2-Hexanone	62	U
127-18-4	Tetrachloroethene	62	U
108-90-7	Chlorobenzene	62	U
100-41-4	Ethylbenzene	44	J
108-38-3/106-42-3	(m+p)Xylene	40	J
100-42-5	Styrene	62	U
79-34-5	1,1,2,2-Tetrachloroethane	62	U
95-47-6	o-Xylene	69	
156-60-5	trans-1,2-Dichloroethene	62	U
75-35-4	1,1-Dichloroethene	62	U
75-34-3	1,1-Dichloroethane	62	U
58-23-5	Carbon tetrachloride	62	U
78-87-5	1,2-Dichloropropane	62	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NEWALL-S

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697128 5.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3414.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 18.9 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 5.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	18.90	2600	J
2. 017301-94-9	Nonane, 4-methyl-	19.02	3000	JN
3. 004291-79-6	Cyclohexane, 1-methyl-2-propyl-	19.98	3400	JN
4. 002847-72-5	Decane, 4-methyl-	20.58	4200	JN
5. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.78	4200	JN
6.	unknown alkane	21.05	2500	J
7. 001678-93-9	Cyclohexane, butyl-	21.27	5900	JN
8.	unknown alkane	21.42	3100	J
9.	unknown hydrocarbon	22.32	4200	J
10.	unknown hydrocarbon	22.62	4400	J
11.	unknown hydrocarbon	22.85	6600	J
12.	unknown hydrocarbon	22.99	3000	J
13.	unknown hydrocarbon	23.48	3500	J
14.	unknown hydrocarbon	23.65	4800	J
15.	unknown hydrocarbon	24.08	2900	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXCDUP-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 697129 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3415.D

Level: (low/med) LOW Date Received: 12/27/03

% Moisture: not dec. 27 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	27	U	
75-01-4	Vinyl chloride	27	U	
75-00-3	Chloroethane	27	U	
74-83-9	Bromomethane	27	U	
67-64-1	Acetone	34		
75-09-2	Methylene chloride	27	U	
75-15-0	Carbon disulfide	27	U	
78-93-3	2-Butanone	4	J	
156-59-2	cis-1,2-Dichloroethene	27	U	
67-66-3	Chloroform	27	U	
107-06-2	1,2-Dichloroethane	27	U	
71-55-6	1,1,1-Trichloroethane	27	U	
71-43-2	Benzene	27	U	
79-01-6	Trichloroethene	27	U	
75-27-4	Bromodichloromethane	27	U	
10061-01-5	cis-1,3-Dichloropropene	27	U	
10061-02-6	trans-1,3-Dichloropropene	27	U	
79-00-5	1,1,2-Trichloroethane	27	U	
124-48-1	Dibromochloromethane	27	U	
75-25-2	Bromoform	27	U	
108-10-1	4-Methyl-2-pentanone	27	U	
108-88-3	Toluene	27	U	
591-78-6	2-Hexanone	27	U	
127-18-4	Tetrachloroethene	27	U	
108-90-7	Chlorobenzene	27	U	
100-41-4	Ethylbenzene	27	U	
108-38-3/106-42-3	(m+p)Xylene	27	U	
100-42-5	Styrene	27	U	
79-34-5	1,1,2,2-Tetrachloroethane	27	U	
95-47-6	o-Xylene	27	U	
156-60-5	trans-1,2-Dichloroethene	27	U	
75-35-4	1,1-Dichloroethene	27	U	
75-34-3	1,1-Dichloroethane	27	U	
56-23-5	Carbon tetrachloride	27	U	
78-87-5	1,2-Dichloropropane	27	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EXCDUP-S

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 697129 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3415.D
 Level: (low/med) LOW Date Received: 12/27/03
 % Moisture: not dec. 27 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1020
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.96	110	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	140	JN
3. 001678-93-9	Cyclohexane, butyl-	21.26	110	JN
4. 006975-98-0	Decane, 2-methyl-	21.57	73	JN
5.	unknown hydrocarbon	22.31	130	J
6.	unknown hydrocarbon	22.61	99	J
7. 000506-51-4	1-Tetracosanol	22.85	200	JN
8. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	22.99	99	JN
9.	unknown hydrocarbon	23.47	130	J
10.	unknown hydrocarbon	23.65	250	J
11.	unknown hydrocarbon	24.07	200	J
12.	unknown hydrocarbon	24.81	170	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	220	JN
14.	unknown hydrocarbon	25.16	160	J
15. 062016-34-6	Octane, 2,3,7-trimethyl-	26.15	210	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWALLS

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698901 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3383.D

Level: (low/med) LOW Date Received: 12/24/03

% Moisture: not dec. 17.5 Date Analyzed: 01/02/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U	U
75-01-4	Vinyl chloride	12	U	U
75-00-3	Chloroethane	12	U	U
74-83-9	Bromomethane	12	U	U
67-64-1	Acetone	21		
75-09-2	Methylene chloride	12	U	U
75-15-0	Carbon disulfide	12	U	U
78-93-3	2-Butanone	4	J	J
156-59-2	cis-1,2-Dichloroethene	11	J	J
67-66-3	Chloroform	12	U	U
107-06-2	1,2-Dichloroethane	12	U	U
71-55-6	1,1,1-Trichloroethane	12	U	U
71-43-2	Benzene	12	U	U
79-01-6	Trichloroethene	24		
75-27-4	Bromodichloromethane	12	U	U
10061-01-5	cis-1,3-Dichloropropene	12	U	U
10061-02-6	trans-1,3-Dichloropropene	12	U	U
79-00-5	1,1,2-Trichloroethane	12	U	U
124-48-1	Dibromochloromethane	12	U	U
75-25-2	Bromoform	12	U	U
108-10-1	4-Methyl-2-pentanone	12	U	U
108-88-3	Toluene	12	U	U
591-78-6	2-Hexanone	12	U	U
127-18-4	Tetrachloroethene	12	U	U
108-90-7	Chlorobenzene	12	U	U
100-41-4	Ethylbenzene	12	U	U
108-38-3/106-42-3	(m+p)Xylene	2	J	J
100-42-5	Styrene	12	U	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U	U
95-47-6	o-Xylene	2	J	J
156-60-5	trans-1,2-Dichloroethene	12	U	U
75-35-4	1,1-Dichloroethene	12	U	U
75-34-3	1,1-Dichloroethane	12	U	U
56-23-5	Carbon tetrachloride	12	U	U
78-87-5	1,2-Dichloropropane	12	U	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWALLS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698901 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3383.D
 Level: (low/med) LOW Date Received: 12/24/03
 % Moisture: not dec. 17.5 Date Analyzed: 01/02/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.99	860	JN
2. 002847-72-5	Decane, 4-methyl-	20.60	240	JN
3. 006975-98-0	Decane, 2-methyl-	21.59	180	JN
4. 001120-21-4	Undecane	22.43	1200	JN
5.	unknown hydrocarbon	22.64	180	J
6.	unknown hydrocarbon	22.87	310	J
7.	unknown hydrocarbon	23.49	200	J
8.	unknown hydrocarbon	23.67	290	J
9. 007045-71-8	Undecane, 2-methyl-	23.89	160	JN
10.	unknown hydrocarbon	24.09	320	J
11. 000112-40-3	Dodecane	24.68	810	JN
12.	unknown aromatic hydrocarbon	24.85	170	J
13. 006044-71-9	Dodecane, 6-methyl-	24.99	190	JN
14.	unknown hydrocarbon	26.18	180	J
15. 000629-50-5	Tridecane	26.65	170	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SEWALLS

Lab Name: CASI\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698902 625.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3363.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 15.3 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 625.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	7400	U	
75-01-4	Vinyl chloride	3000	J	
75-00-3	Chloroethane	7400	U	
74-83-9	Bromomethane	7400	U	
67-64-1	Acetone	7400	U	
75-09-2	Methylene chloride	7400	U	
75-15-0	Carbon disulfide	7400	U	
78-93-3	2-Butanone	7400	U	
156-59-2	cis-1,2-Dichloroethene	150000		
67-66-3	Chloroform	7400	U	
107-06-2	1,2-Dichloroethane	7400	U	
71-55-6	1,1,1-Trichloroethane	6500	J	
71-43-2	Benzene	7400	U	
79-01-6	Trichloroethene	110000		
75-27-4	Bromodichloromethane	7400	U	
10061-01-5	cis-1,3-Dichloropropene	7400	U	
10061-02-6	trans-1,3-Dichloropropene	7400	U	
79-00-5	1,1,2-Trichloroethane	7400	U	
124-48-1	Dibromochloromethane	7400	U	
75-25-2	Bromoform	7400	U	
108-10-1	4-Methyl-2-pentanone	7400	U	
108-88-3	Toluene	7400	U	
591-78-6	2-Hexanone	7400	U	
127-18-4	Tetrachloroethene	7400	U	
108-90-7	Chlorobenzene	7400	U	
100-41-4	Ethylbenzene	940	J	
108-38-3/106-42-3	(m+p)Xylene	2300	J	
100-42-5	Styrene	7400	U	
79-34-5	1,1,2,2-Tetrachloroethane	7400	U	
95-47-6	o-Xylene	2000	J	
156-60-5	trans-1,2-Dichloroethene	7400	U	
75-35-4	1,1-Dichloroethene	7400	U	
75-34-3	1,1-Dichloroethane	880	J	
56-23-5	Carbon tetrachloride	7400	U	
78-87-5	1,2-Dichloropropane	7400	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SEWALLS

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698902 625.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3363.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 15.3 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 625.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	20.00	120000	JN
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	20.81	32000	JN
3. 001678-93-9	Cyclohexane, butyl-	21.29	44000	JN
4. 000141-93-5	Benzene, 1,3-diethyl-	22.23	28000	JN
5.	unknown hydrocarbon	22.34	31000	J
6. 001120-21-4	Undecane	22.44	63000	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.65	40000	JN
8.	unknown hydrocarbon	22.88	30000	J
9. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	23.03	24000	JN
10.	unknown hydrocarbon	23.31	34000	J
11.	unknown hydrocarbon	23.51	28000	J
12.	unknown hydrocarbon	23.67	48000	J
13.	unknown hydrocarbon	24.11	48000	J
14. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.85	31000	JN
15.	unknown hydrocarbon	26.49	22000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SEBOTT'S

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698903 625.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3367.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 16 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 625.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	7400	U	
75-01-4	Vinyl chloride	5100	J	
75-00-3	Chloroethane	7400	U	
74-83-9	Bromomethane	7400	U	
67-64-1	Acetone	7400	U	
75-09-2	Methylene chloride	7400	U	
75-15-0	Carbon disulfide	7400	U	
78-93-3	2-Butanone	7400	U	
156-59-2	cis-1,2-Dichloroethene	180000	E	
67-66-3	Chloroform	7400	U	
107-06-2	1,2-Dichloroethane	7400	U	
71-55-6	1,1,1-Trichloroethane	7100	J	
71-43-2	Benzene	7400	U	
79-01-6	Trichloroethene	7400	U	
75-27-4	Bromodichloromethane	7400	U	
10061-01-5	cis-1,3-Dichloropropene	7400	U	
10061-02-6	trans-1,3-Dichloropropene	7400	U	
79-00-5	1,1,2-Trichloroethane	7400	U	
124-48-1	Dibromochloromethane	7400	U	
75-25-2	Bromoform	7400	U	
108-10-1	4-Methyl-2-pentanone	7400	U	
108-88-3	Toluene	840	J	
591-78-6	2-Hexanone	7400	U	
127-18-4	Tetrachloroethene	7400	U	
108-90-7	Chlorobenzene	7400	U	
100-41-4	Ethylbenzene	1900	J	
108-38-3/106-42-3	(m+p)Xylene	4000	J	
100-42-5	Styrene	7400	U	
79-34-5	1,1,2,2-Tetrachloroethane	7400	U	
95-47-6	o-Xylene	3500	J	
156-60-5	trans-1,2-Dichloroethene	7400	U	
75-35-4	1,1-Dichloroethene	890	J	
75-34-3	1,1-Dichloroethane	1400	J	
56-23-5	Carbon tetrachloride	7400	U	
78-87-5	1,2-Dichloropropane	7400	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SEBOTTTS

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698903 625.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3367.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 16 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 625.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.99	150000	JN
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	20.80	47000	JN
3. 001678-93-9	Cyclohexane, butyl-	21.28	75000	JN
4. 000141-93-5	Benzene, 1,3-diethyl-	22.22	40000	JN
5.	unknown hydrocarbon	22.33	39000	J
6. 001120-21-4	Undecane	22.43	59000	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.64	47000	JN
8.	unknown hydrocarbon	22.87	35000	J
9. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	23.02	34000	JN
10.	unknown hydrocarbon	23.31	53000	J
11.	unknown hydrocarbon	23.50	37000	J
12.	unknown hydrocarbon	23.66	61000	J
13.	unknown hydrocarbon	24.10	62000	J
14. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.85	43000	JN
15. 000091-20-3	Naphthalene	26.20	38000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SEBOTTSDL

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698903 1250.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3372.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 16 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 50.0 1250.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	15000	U	
75-01-4	Vinyl chloride	5300	JD	
75-00-3	Chloroethane	15000	U	
74-83-9	Bromomethane	15000	U	
67-64-1	Acetone	15000	U	
75-09-2	Methylene chloride	15000	U	
75-15-0	Carbon disulfide	15000	U	
78-93-3	2-Butanone	15000	U	
156-59-2	cis-1,2-Dichloroethene	190000	D	
67-66-3	Chloroform	15000	U	
107-06-2	1,2-Dichloroethane	15000	U	
71-55-6	1,1,1-Trichloroethane	7000	JD	
71-43-2	Benzene	15000	U	
79-01-6	Trichloroethene	15000	U	
75-27-4	Bromodichloromethane	15000	U	
10061-01-5	cis-1,3-Dichloropropene	15000	U	
10061-02-6	trans-1,3-Dichloropropene	15000	U	
79-00-5	1,1,2-Trichloroethane	15000	U	
124-48-1	Dibromochloromethane	15000	U	
75-25-2	Bromoform	15000	U	
108-10-1	4-Methyl-2-pentanone	15000	U	
108-88-3	Toluene	15000	U	
591-78-6	2-Hexanone	15000	U	
127-18-4	Tetrachloroethene	15000	U	
108-90-7	Chlorobenzene	15000	U	
100-41-4	Ethylbenzene	1800	JD	
108-38-3/106-42-3	(m+p)Xylene	4000	JD	
100-42-5	Styrene	15000	U	
79-34-5	1,1,2,2-Tetrachloroethane	15000	U	
95-47-6	o-Xylene	3600	JD	
156-60-5	trans-1,2-Dichloroethene	15000	U	
75-35-4	1,1-Dichloroethene	15000	U	
75-34-3	1,1-Dichloroethane	15000	U	
56-23-5	Carbon tetrachloride	15000	U	
78-87-5	1,2-Dichloropropane	15000	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SEBOTTSDL

Lab Name: CASI/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698903 1250.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3372.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 16 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 50.0 1250.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.98	200000	JND
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	20.78	48000	JND
3. 001678-93-9	Cyclohexane, butyl-	21.26	64000	JND
4. 000141-93-5	Benzene, 1,3-diethyl-	22.21	38000	JND
5.	unknown hydrocarbon	22.32	38000	JD
6. 001120-21-4	Undecane	22.41	87000	JND
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.62	56000	JND
8.	unknown hydrocarbon	22.86	41000	JD
9.	unknown hydrocarbon	23.29	53000	JD
10.	unknown hydrocarbon	23.49	41000	JD
11.	unknown hydrocarbon	23.65	67000	JD
12.	unknown hydrocarbon	24.09	68000	JD
13. 000112-40-3	Dodecane	24.66	37000	JND
14. 000099-87-6	Benzene, 1-methyl-4-(1-methylet	24.84	43000	JND
15. 000091-20-3	Naphthalene	26.19	42000	JND

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWWALLS

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698904 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3368.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 19.2 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10125.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	1500	U
75-01-4	Vinyl chloride	1500	U
75-00-3	Chloroethane	1500	U
74-83-9	Bromomethane	1500	U
67-64-1	Acetone	1500	U
75-09-2	Methylene chloride	1500	U
75-15-0	Carbon disulfide	1500	U
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	1100	J
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
71-55-6	1,1,1-Trichloroethane	1500	U
71-43-2	Benzene	1500	U
79-01-6	Trichloroethene	5300	
75-27-4	Bromodichloromethane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	1500	U
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	1500	U
108-38-3/106-42-3	(m+p)Xylene	1500	U
100-42-5	Styrene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U
95-47-6	o-Xylene	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-34-3	1,1-Dichloroethane	1500	U
56-23-5	Carbon tetrachloride	1500	U
78-87-5	1,2-Dichloropropane	1500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWWALLS

Lab Name: CASI/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698904 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3368.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 19.2 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.98	2000	JN
2. 001120-21-4	Undecane	22.43	1700	JN
3. 000112-40-3	Dodecane	24.66	790	JN
4. 000091-20-3	Naphthalene	26.19	920	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WWALLS

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698905 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3369.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 18.9 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	1500	U
75-01-4	Vinyl chloride	1500	U
75-00-3	Chloroethane	1500	U
74-83-9	Bromomethane	1500	U
67-64-1	Acetone	1500	U
75-09-2	Methylene chloride	1500	U
75-15-0	Carbon disulfide	1500	U
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	1800	
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
71-55-6	1,1,1-Trichloroethane	1500	U
71-43-2	Benzene	1500	U
79-01-6	Trichloroethene	13000	
75-27-4	Bromodichloromethane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	1500	U
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	1500	U
108-38-3/106-42-3	(m+p)Xylene	1500	U
100-42-5	Styrene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U
95-47-6	o-Xylene	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-34-3	1,1-Dichloroethane	1500	U
56-23-5	Carbon tetrachloride	1500	U
78-87-5	1,2-Dichloropropane	1500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WWALLS

Lab Name: CASROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698905 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3369.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 18.9 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: 6 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.99	1100	JN
2. 001120-21-4	Undecane	22.42	2100	JN
3.	unknown hydrocarbon	23.71	1200	J
4. 000112-40-3	Dodecane	24.67	1500	JN
5. 000091-20-3	Naphthalene	26.19	770	JN
6. 000629-50-5	Tridecane	26.65	970	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WWALL2-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 699602 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3416.D

Level: (low/med) LOW Date Received: 12/31/03

% Moisture: not dec. 13.4 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	23	U
75-01-4	Vinyl chloride	23	U
75-00-3	Chloroethane	23	U
74-83-9	Bromomethane	23	U
67-64-1	Acetone	18	J
75-09-2	Methylene chloride	23	U
75-15-0	Carbon disulfide	23	U
78-93-3	2-Butanone	23	U
156-59-2	cis-1,2-Dichloroethene	270	
67-66-3	Chloroform	23	U
107-06-2	1,2-Dichloroethane	23	U
71-55-6	1,1,1-Trichloroethane	23	U
71-43-2	Benzene	23	U
79-01-6	Trichloroethene	280	
75-27-4	Bromodichloromethane	23	U
10061-01-5	cis-1,3-Dichloropropene	23	U
10061-02-6	trans-1,3-Dichloropropene	23	U
79-00-5	1,1,2-Trichloroethane	23	U
124-48-1	Dibromochloromethane	23	U
75-25-2	Bromoform	23	U
108-10-1	4-Methyl-2-pentanone	23	U
108-88-3	Toluene	23	U
591-78-6	2-Hexanone	23	U
127-18-4	Tetrachloroethene	23	U
108-90-7	Chlorobenzene	23	U
100-41-4	Ethylbenzene	23	U
108-38-3/106-42-3	(m+p)Xylene	23	U
100-42-5	Styrene	23	U
79-34-5	1,1,2,2-Tetrachloroethane	23	U
95-47-6	o-Xylene	23	U
156-60-5	trans-1,2-Dichloroethene	23	U
75-35-4	1,1-Dichloroethene	23	U
75-34-3	1,1-Dichloroethane	4	J
56-23-5	Carbon tetrachloride	23	U
78-87-5	1,2-Dichloropropane	23	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WWALL2-S

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 699602 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3416.D
 Level: (low/med) LOW Date Received: 12/31/03
 % Moisture: not dec. 13.4 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	26.16	13	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WBOTT2-S

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 699603 2.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3440.D

Level: (low/med) LOW Date Received: 12/31/03

% Moisture: not dec. 19.2 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 L.D

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	25	U	
75-01-4	Vinyl chloride	25	U	
75-00-3	Chloroethane	25	U	
74-83-9	Bromomethane	25	U	
67-64-1	Acetone	8	J	
75-09-2	Methylene chloride	25	U	
75-15-0	Carbon disulfide	25	U	
78-93-3	2-Butanone	25	U	
156-59-2	cis-1,2-Dichloroethene	57		
67-66-3	Chloroform	25	U	
107-06-2	1,2-Dichloroethane	25	U	
71-55-6	1,1,1-Trichloroethane	25	U	
71-43-2	Benzene	25	U	
79-01-6	Trichloroethene	100		
75-27-4	Bromodichloromethane	25	U	
10061-01-5	cis-1,3-Dichloropropene	25	U	
10061-02-6	trans-1,3-Dichloropropene	25	U	
79-00-5	1,1,2-Trichloroethane	25	U	
124-48-1	Dibromochloromethane	25	U	
75-25-2	Bromoform	25	U	
108-10-1	4-Methyl-2-pentanone	25	U	
108-88-3	Toluene	25	U	
591-78-6	2-Hexanone	25	U	
127-18-4	Tetrachloroethene	25	U	
108-90-7	Chlorobenzene	25	U	
100-41-4	Ethylbenzene	25	U	
108-38-3/106-42-3	(m+p)Xylene	25	U	
100-42-5	Styrene	25	U	
79-34-5	1,1,2,2-Tetrachloroethane	25	U	
95-47-6	o-Xylene	25	U	
156-60-5	trans-1,2-Dichloroethene	25	U	
75-35-4	1,1-Dichloroethene	25	U	
75-34-3	1,1-Dichloroethane	25	U	
56-23-5	Carbon tetrachloride	25	U	
78-87-5	1,2-Dichloropropane	25	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WBOTT2-S

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 699603 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3440.D
 Level: (low/med) LOW Date Received: 12/31/03
 % Moisture: not dec. 19.2 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 062016-34-6	Octane, 2,3,7-trimethyl-	26.15	22	JN
2.	unknown hydrocarbon	27.79	27	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW1-BOTTS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 699604 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3418.D
 Level: (low/med) LOW Date Received: 12/31/03
 % Moisture: not dec. 19.1 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U	
75-01-4	Vinyl chloride	5	J	
75-00-3	Chloroethane	12	U	
74-83-9	Bromomethane	12	U	
67-64-1	Acetone	15		
75-09-2	Methylene chloride	12	U	
75-15-0	Carbon disulfide	12	U	
78-93-3	2-Butanone	12	U	
156-59-2	cis-1,2-Dichloroethene	7	J	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
79-01-6	Trichloroethene	61		
75-27-4	Bromodichloromethane	12	U	
10061-01-5	cis-1,3-Dichloropropene	12	U	
10061-02-6	trans-1,3-Dichloropropene	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
124-48-1	Dibromochloromethane	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-pentanone	12	U	
108-88-3	Toluene	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
108-38-3/106-42-3	(m+p)Xylene	12	U	
100-42-5	Styrene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
95-47-6	o-Xylene	12	U	
156-60-5	trans-1,2-Dichloroethene	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	2	J	
56-23-5	Carbon tetrachloride	12	U	
78-87-5	1,2-Dichloropropane	12	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW1-BOTTS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 699604 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3418.D
 Level: (low/med) LOW Date Received: 12/31/03
 % Moisture: not dec. 19.1 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.96	50	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	72	JN
3.	unknown alkane	21.03	35	J
4. 001678-93-9	Cyclohexane, butyl-	21.25	41	JN
5.	unknown hydrocarbon	22.31	65	J
6.	unknown hydrocarbon	22.61	78	J
7. 000506-51-4	1-Tetracosanol	22.84	93	JN
8.	unknown alkane	23.10	35	J
9.	unknown hydrocarbon	23.46	65	J
10.	unknown hydrocarbon	23.64	130	J
11.	unknown hydrocarbon	24.07	79	J
12.	unknown hydrocarbon	24.87	41	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	73	JN
14.	unknown hydrocarbon	25.16	69	J
15.	unknown alkane	26.16	82	J

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-NWWALL-BOTT-S

Date Sampled : 12/26/03 12:50 Order #: 697119 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/27/03 Submission #: R2319595

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	83.8	%	01/06/04	10:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-NWWALL-SHAL-S

Date Sampled : 12/26/03 12:52	Order #: 697121	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/27/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	77.4	%	01/06/04	10:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-PIER-NSHAL-S

Date Sampled : 12/26/03 12:55	Order #: 697123	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/27/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	84.6	%	01/06/04	10:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-PIER-NMID-S

Date Sampled : 12/26/03 12:57	Order #: 697126	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/27/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	82.6	%	01/06/04	10:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-NWALL-S

Date Sampled : 12/26/03 14:50	Order #: 697127	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/27/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	77.5	%	01/06/04	10:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-NEWALL-S

Date Sampled : 12/26/03 14:55	Order #: 697128	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/27/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	81.1	%	01/06/04	10:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-EXCDUP-S

Date Sampled : 12/26/03	Order #: 697129	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/27/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	73.0	%	01/06/04	10:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-SWALL-S

Date Sampled : 12/23/03 10:30	Order #: 698901	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	82.5	%	01/16/04	12:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-SEWALL-S

Date Sampled : 12/23/03 10:33	Order #: 698902	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	84.7	%	01/16/04	12:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-SEBOTT-S

Date Sampled : 12/24/03 09:20	Order #: 698903	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	84.0	%	01/16/04	12:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-SWWALL-S

Date Sampled : 12/24/03 09:25	Order #: 698904	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	80.8	%	01/16/04	12:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-WWALL-S

Date Sampled : 12/24/03 09:25	Order #: 698905	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	81.1	%	01/16/04	12:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-WWALL2-S

Date Sampled : 12/29/03 13:40

Order #: 699602

Sample Matrix: SOIL/SEDIMENT

Date Received: 12/31/03

Submission #: R2319595

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	86.6	%	01/06/04	10:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-WBOTT2-S

Date Sampled : 12/29/03 13:45	Order #: 699603	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/31/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	80.9	%	01/06/04	10:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/02/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-RW1-BOTT-S

Date Sampled : 12/30/03 12:15	Order #: 699604	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/31/03	Submission #: R2319595	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	80.9	%	01/12/04	11:00	1.0

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	SOILBLK1	105	101	98	0
02	SOILBLK1MS	99	103	98	0
03	SWALLS	100	98	100	0
04	SOILBLK2	102	103	97	0
05	SOILBLK2MS	101	102	98	0
06	NWALL-S	95	100	95	0
07	NEWALL-S	103	108	116 *	1
08	EXCDUP-S	100	101	97	0
09	WWALL2-S	98	103	98	0
10	RW1-BOTTS	99	101	95	0
11	SOILBLK3	101	100	96	0
12	SOILBLK3MS	98	100	98	0
13	NWWALL-BO	101	103	90	0
14	NWWALL-SH	100	103	99	0
15	WBOTT2-S	99	103	98	0

SMC1	=	1,2-Dichloroethane-d4	QC LIMITS
SMC2	=	Toluene-d8	(70-121)
SMC3	=	BFB	(84-138)
			(59-113)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D System Monitoring Compound diluted out

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	MEDBLK1	100	97	91	0
02	MEDBLK1MS	100	98	90	0
03	SEWALLS	99	94	94	0
04	SEBOTTS	92	98	100	0
05	SWWALLS	90	94	96	0
06	WWALLS	86	97	97	0
07	SEBOTTS DL	86	94	94	0
08	MEDBLK3	104	107	104	0
09	MEDBLK3MS	104	102	102	0
10	WWALLSMS	103	106	103	0
11	WWALLSMS D	104	106	106	0
12	MEDBLK2	103	102	97	0
13	MEDBLK2MS	103	104	98	0
14	NSHAL-S	101	102	99	0
15	NSHAL-SDL	100	105	100	0
16	NMID-S	100	102	103	0

SMC1	=	1,2-Dichloroethane-d4	QC LIMITS (70-121)
SMC2	=	Toluene-d8	(84-138)
SMC3	=	bromoflorobenzene	(59-113)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D System Monitoring Compound diluted out

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CASIROCHContract: SEARBLab Code: 10145Case No.: R3-19595

SAS No.: _____

SDG No.: 697119Matrix Spike - EPA Sample No.: MEDBLK1Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	45	90	66 - 142
Trichloroethene	50	0.0	44	88	62 - 137
Toluene	50	0.0	47	94	59 - 139
Chlorobenzene	50	0.0	47	94	60 - 133
1,1-Dichloroethene	50	0.0	50	100	59 - 172

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK1MS

Lab Name: CASI/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) WATER Lab Sample ID: MEDBLKMS

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3362.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	45		
79-01-6	Trichloroethene	44		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	47		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	47		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	50		
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCHContract: SEARBLab Code: 10145Case No.: R3-19595

SAS No.: _____

SDG No.: 697119Matrix Spike - EPA Sample No.: SOILBLK1Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	51	102	66 - 142
Trichloroethene	50	0.0	49	98	62 - 137
Toluene	50	0.0	49	98	59 - 139
Chlorobenzene	50	0.0	49	98	60 - 133
1,1-Dichloroethene	50	0.0	48	96	59 - 172

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK1MS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: VBLKMS
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3382.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. 0 Date Analyzed: 01/02/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	2	J	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	51		
79-01-6	Trichloroethene	49		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	49		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	49		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	48		
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
Matrix Spike - EPA Sample No.: MEDBLK2 Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	54	108	66 - 142
Trichloroethene	50	0.0	53	106	62 - 137
Toluene	50	0.0	51	102	59 - 139
Chlorobenzene	50	0.0	51	102	60 - 133
1,1-Dichloroethene	50	0.0	52	104	59 - 172

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK2MS

Lab Name: CASIROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) WATER Lab Sample ID: VBLKMS

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3400.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/03/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	53	
79-01-6	Trichloroethene	53	
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	53	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	54	
75-34-3	1,1-Dichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix Spike - EPA Sample No.: SOILBLK2 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	54	108	66 - 142
Trichloroethene	50	0.0	53	106	62 - 137
Toluene	50	0.0	53	106	59 - 139
Chlorobenzene	50	0.0	53	106	60 - 133
1,1-Dichloroethene	50	0.0	58	116	59 - 172

COMMENTS: _____

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK2MS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: VBLKMS
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3410.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. 0 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	54		
79-01-6	Trichloroethene	53		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	53		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	53		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	58		
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCHContract: SEARBLab Code: 10145Case No.: R3-19595

SAS No.: _____

SDG No.: 697119Matrix Spike - EPA Sample No.: SOILBLK3Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	52	104	66 - 142
Trichloroethene	50	0.0	52	104	62 - 137
Toluene	50	0.0	51	102	59 - 139
Chlorobenzene	50	0.0	52	104	60 - 133
1,1-Dichloroethene	50	0.0	51	102	59 - 172

COMMENTS: _____

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK3MS

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: VBLKMS

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3432.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	52	
79-01-6	Trichloroethene	52	
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	51	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	51	
75-34-3	1,1-Dichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix Spike - EPA Sample No.: MEDBLK3 Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	53	106	66 - 142
Trichloroethene	50	0.0	53	106	62 - 137
Toluene	50	0.0	53	106	59 - 139
Chlorobenzene	50	0.0	52	104	60 - 133
1,1-Dichloroethene	50	0.0	54	108	59 - 172

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK3MS

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) WATER Lab Sample ID: VBLKMS

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3452.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	54		
79-01-6	Trichloroethene	53		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	51		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	51		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	52		
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix Spike - EPA Sample No.: WWALLS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	7700	0.0	7800	101	66 - 142
Trichloroethene	7700	13000	21000	103	62 - 137
Toluene	7700	0.0	7700	100	59 - 139
Chlorobenzene	7700	0.0	7600	99	60 - 133
1,1-Dichloroethene	7700	0.0	7900	103	59 - 172

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Benzene	7700	7700	100	1	21	66 - 142
Trichloroethene	7700	21000	104	0	24	62 - 137
Toluene	7700	7700	100	0	21	59 - 139
Chlorobenzene	7700	7600	99	0	21	60 - 133
1,1-Dichloroethene	7700	8000	104	1	22	59 - 172

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WWALLSMS

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: 698905 125MS
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3401.D
 Level: (low/med) MED Date Received: 12/24/03
 % Moisture: not dec. 18.9 Date Analyzed: 01/03/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 125
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500	U	
75-01-4	Vinyl chloride	1500	U	
75-00-3	Chloroethane	1500	U	
74-83-9	Bromomethane	1500	U	
67-64-1	Acetone	1500	U	
75-09-2	Methylene chloride	1500	U	
75-15-0	Carbon disulfide	1500	U	
78-93-3	2-Butanone	1500	U	
156-59-2	cis-1,2-Dichloroethene	1700		
67-66-3	Chloroform	1500	U	
107-06-2	1,2-Dichloroethane	1500	U	
71-55-6	1,1,1-Trichloroethane	1500	U	
71-43-2	Benzene	7800		
79-01-6	Trichloroethene	21000		
75-27-4	Bromodichloromethane	1500	U	
10061-01-5	cis-1,3-Dichloropropene	1500	U	
10061-02-6	trans-1,3-Dichloropropene	1500	U	
79-00-5	1,1,2-Trichloroethane	1500	U	
124-48-1	Dibromochloromethane	1500	U	
75-25-2	Bromoform	1500	U	
108-10-1	4-Methyl-2-pentanone	1500	U	
108-88-3	Toluene	7700		
591-78-6	2-Hexanone	1500	U	
127-18-4	Tetrachloroethene	1500	U	
108-90-7	Chlorobenzene	7600		
100-41-4	Ethylbenzene	1500	U	
108-38-3/106-42-3	(m+p)Xylene	1500	U	
100-42-5	Styrene	1500	U	
79-34-5	1,1,2,2-Tetrachloroethane	1500	U	
95-47-6	o-Xylene	1500	U	
156-60-5	trans-1,2-Dichloroethene	1500	U	
75-35-4	1,1-Dichloroethene	7900		
75-34-3	1,1-Dichloroethane	1500	U	
56-23-5	Carbon tetrachloride	1500	U	
78-87-5	1,2-Dichloropropane	1500	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WWALLSMSD

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 698905 125MS

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3402.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 18.9 Date Analyzed: 01/03/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 125

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	1500	U
75-01-4	Vinyl chloride	1500	U
75-00-3	Chloroethane	1500	U
74-83-9	Bromomethane	1500	U
67-64-1	Acetone	1500	U
75-09-2	Methylene chloride	1500	U
75-15-0	Carbon disulfide	1500	U
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	1800	
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
71-55-6	1,1,1-Trichloroethane	1500	U
71-43-2	Benzene	7700	
79-01-6	Trichloroethene	21000	
75-27-4	Bromodichloromethane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	7700	
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	1500	U
108-90-7	Chlorobenzene	7600	
100-41-4	Ethylbenzene	1500	U
108-38-3/106-42-3	(m+p)Xylene	1500	U
100-42-5	Styrene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U
95-47-6	o-Xylene	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
75-35-4	1,1-Dichloroethene	8000	
75-34-3	1,1-Dichloroethane	1500	U
56-23-5	Carbon tetrachloride	1500	U
78-87-5	1,2-Dichloropropane	1500	U

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MEDBLK1

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID: B3361.D Lab Sample ID: MED BLK
 Date Analyzed: 12/31/03 Time Analyzed: 12:19
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MEDBLK1MS	MEDBLKMS	B3362.D	13:08
02	SEWALLS	698902 625.0	B3363.D	14:04
03	SEBOTT	698903 625.0	B3367.D	16:32
04	SWWALLS	698904 125.0	B3368.D	17:07
05	WWALLS	698905 125.0	B3369.D	17:42
06	SEBOTTSDL	698903 1250.0	B3372.D	19:27

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK1

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: MED BLK
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3361.D
 Level: (low/med) MED Date Received: _____
 % Moisture: not dec. 0 Date Analyzed: 12/31/03
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		1200	U
75-01-4	Vinyl chloride		1200	U
75-00-3	Chloroethane		1200	U
74-83-9	Bromomethane		1200	U
67-64-1	Acetone		1200	U
75-09-2	Methylene chloride		1200	U
75-15-0	Carbon disulfide		1200	U
78-93-3	2-Butanone		1200	U
156-59-2	cis-1,2-Dichloroethene		1200	U
67-66-3	Chloroform		1200	U
107-06-2	1,2-Dichloroethane		1200	U
71-55-6	1,1,1-Trichloroethane		1200	U
71-43-2	Benzene		1200	U
79-01-6	Trichloroethene		1200	U
75-27-4	Bromodichloromethane		1200	U
10061-01-5	cis-1,3-Dichloropropene		1200	U
10061-02-6	trans-1,3-Dichloropropene		1200	U
79-00-5	1,1,2-Trichloroethane		1200	U
124-48-1	Dibromochloromethane		1200	U
75-25-2	Bromoform		1200	U
108-10-1	4-Methyl-2-pentanone		1200	U
108-88-3	Toluene		1200	U
591-78-6	2-Hexanone		1200	U
127-18-4	Tetrachloroethene		1200	U
108-90-7	Chlorobenzene		1200	U
100-41-4	Ethylbenzene		1200	U
108-38-3/106-42-3	(m+p)Xylene		1200	U
100-42-5	Styrene		1200	U
79-34-5	1,1,2,2-Tetrachloroethane		1200	U
95-47-6	o-Xylene		1200	U
156-60-5	trans-1,2-Dichloroethene		1200	U
75-35-4	1,1-Dichloroethene		1200	U
75-34-3	1,1-Dichloroethane		1200	U
56-23-5	Carbon tetrachloride		1200	U
78-87-5	1,2-Dichloropropane		1200	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MEDBLK1

Lab Name: CASIROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
Matrix: (soil/water) SOIL Lab Sample ID: MED BLK
Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3361.D
Level: (low/med) MED Date Received:
% Moisture: not dec. 0 Date Analyzed: 12/31/03
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: CAS/ROCH Contract: SEARB **SOILBLK1**
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Lab File ID: B3381.D Lab Sample ID: VLK
 Date Analyzed: 01/02/04 Time Analyzed: 13:05
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SOILBLK1MS	VLKMS	B3382.D	13:40
02	SWALLS	698901 1.0	B3383.D	14:15

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK1

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: VBLK

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3381.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/02/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOILBLK1

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
Matrix: (soil/water) SOIL Lab Sample ID: VBLK
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3381.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 01/02/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: CAS\ROCH Contract: SEARB MEDBLK2
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Lab File ID: B3399.D Lab Sample ID: VLBK
 Date Analyzed: 01/03/04 Time Analyzed: 19:50
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MEDBLK2MS	VLBKMS	B3400.D	20:25
02	WWALLSMS	698905 125MS	B3401.D	21:01
03	WWALLMSD	698905 125MSD	B3402.D	21:37

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK2

Lab Name: CASIROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: VLBK

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3399.D

Level: (low/med) MED Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/03/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1200	U	
75-01-4	Vinyl chloride	1200	U	
75-00-3	Chloroethane	1200	U	
74-83-9	Bromomethane	1200	U	
67-64-1	Acetone	1200	U	
75-09-2	Methylene chloride	1200	U	
75-15-0	Carbon disulfide	1200	U	
78-93-3	2-Butanone	1200	U	
156-59-2	cis-1,2-Dichloroethene	1200	U	
67-66-3	Chloroform	1200	U	
107-06-2	1,2-Dichloroethane	1200	U	
71-55-6	1,1,1-Trichloroethane	1200	U	
71-43-2	Benzene	1200	U	
79-01-6	Trichloroethene	1200	U	
75-27-4	Bromodichloromethane	1200	U	
10061-01-5	cis-1,3-Dichloropropene	1200	U	
10061-02-6	trans-1,3-Dichloropropene	1200	U	
79-00-5	1,1,2-Trichloroethane	1200	U	
124-48-1	Dibromochloromethane	1200	U	
75-25-2	Bromoform	1200	U	
108-10-1	4-Methyl-2-pentanone	1200	U	
108-88-3	Toluene	1200	U	
591-78-6	2-Hexanone	1200	U	
127-18-4	Tetrachloroethene	1200	U	
108-90-7	Chlorobenzene	1200	U	
100-41-4	Ethylbenzene	1200	U	
108-38-3/106-42-3	(m+p)Xylene	1200	U	
100-42-5	Styrene	1200	U	
79-34-5	1,1,2,2-Tetrachloroethane	1200	U	
95-47-6	o-Xylene	1200	U	
156-60-5	trans-1,2-Dichloroethene	1200	U	
75-35-4	1,1-Dichloroethene	1200	U	
75-34-3	1,1-Dichloroethane	1200	U	
56-23-5	Carbon tetrachloride	1200	U	
78-87-5	1,2-Dichloropropane	1200	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MEDBLK2

Lab Name: CASI\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
Matrix: (soil/water) SOIL Lab Sample ID: VBLK
Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3399.D
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 01/03/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SOILBLK2

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Lab File ID: B3409.D Lab Sample ID: VBLK
 Date Analyzed: 01/06/04 Time Analyzed: 12:32
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SOILBLK2MS	VBLKMS	B3410.D	13:07
02	NWALL-S	697127 2.0	B3413.D	15:10
03	NEWALL-S	697128 5.0	B3414.D	16:09
04	EXCDUP-S	697129 2.0	B3415.D	16:50
05	WWALL2-S	699602 2.0	B3416.D	17:25
06	RW1-BOTTS	699604 1.0	B3418.D	18:35

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK2

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: VBLK

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3409.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
79-01-6	Trichloroethene	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOILBLK2

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: VBLK
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3409.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. 0 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SOILBLK3

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Lab File ID: B3431.D Lab Sample ID: VLK
 Date Analyzed: 01/07/04 Time Analyzed: 13:06
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SOILBLK3MS	VLKMS	B3432.D	13:53
02	NWWALL-BOTTS	697119 2.0	B3438.D	17:28
03	NWWALL-SHALS	697121 2.0	B3439.D	18:03
04	WBOTT2-S	699603 2.0	B3440.D	18:38

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK3

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: VBLK

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3431.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOILBLK3

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Matrix: (soil/water) SOIL Lab Sample ID: VLK
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3431.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. 0 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: <u>CASROCH</u>	Contract: <u>SEARB</u>	MEDBLK3
Lab Code: <u>10145</u>	Case No.: <u>R3-19595</u>	SAS No.: _____ SDG No.: <u>697119</u>
Lab File ID: <u>B3451.D</u>	Lab Sample ID: <u>VLK</u>	
Date Analyzed: <u>01/08/04</u>	Time Analyzed: <u>13:42</u>	
GC Column: <u>DB-624</u> ID: <u>0.32</u> (mm)	Heated Purge: (Y/N) <u>N</u>	
Instrument ID: <u>MSVOA5</u>		

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MEDBLK3MS	VLKMS	B3452.D	14:17
02	NSHAL-S	697123 125.0	B3453.D	15:09
03	NSHAL-SDL	697123 625.0	B3456.D	16:58
04	NMID-S	697126 125.0	B3457.D	17:33

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK3

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: VLBK

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3451.D

Level: (low/med) MED Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	1200	U
75-01-4	Vinyl chloride	1200	U
75-00-3	Chloroethane	1200	U
74-83-9	Bromomethane	1200	U
67-64-1	Acetone	1200	U
75-09-2	Methylene chloride	1200	U
75-15-0	Carbon disulfide	1200	U
78-93-3	2-Butanone	1200	U
156-59-2	cis-1,2-Dichloroethene	1200	U
67-66-3	Chloroform	1200	U
107-06-2	1,2-Dichloroethane	1200	U
71-55-6	1,1,1-Trichloroethane	1200	U
71-43-2	Benzene	1200	U
79-01-6	Trichloroethene	1200	U
75-27-4	Bromodichloromethane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
10061-02-6	trans-1,3-Dichloropropene	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
124-48-1	Dibromochloromethane	1200	U
75-25-2	Bromoform	1200	U
108-10-1	4-Methyl-2-pentanone	1200	U
108-88-3	Toluene	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	1200	U
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	1200	U
108-38-3/106-42-3	(m+p)Xylene	1200	U
100-42-5	Styrene	1200	U
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
95-47-6	o-Xylene	1200	U
156-60-5	trans-1,2-Dichloroethene	1200	U
75-35-4	1,1-Dichloroethene	1200	U
75-34-3	1,1-Dichloroethane	1200	U
56-23-5	Carbon tetrachloride	1200	U
78-87-5	1,2-Dichloropropane	1200	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MEDBLK3

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: VLK

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3451.D

Level: (low/med) MED Date Received:

% Moisture: not dec. 0 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID: B2030.D BFB Injection Date: 10/09/03
 Instrument ID: MSVOA5 BFB Injection Time: 10:49
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.1
75	30.0 - 66.0% of mass 95	36.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	76.0
175	4.0 - 9.0% of mass 174	5.3 (7.0)1
176	93.0 - 101.0% of mass 174	72.1 (94.9)1
177	5.0 - 9.0% of mass 176	4.5 (6.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1	10PPB	B2032.D	10/09/03	12:55
02	STD2	20PPB	B2033.D	10/09/03	13:40
03	STD3	50PPB	B2034.D	10/09/03	14:15
04	STD4	100PPB	B2038.D	10/09/03	16:36
05	STD5	200PPB	B2039.D	10/09/03	17:11

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID: B2449.D BFB Injection Date: 11/04/03
 Instrument ID: MSVOA5 BFB Injection Time: 15:35
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.2
75	30.0 - 66.0% of mass 95	39.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	72.2
175	4.0 - 9.0% of mass 174	5.3 (7.3)1
176	93.0 - 101.0% of mass 174	69.7 (96.5)1
177	5.0 - 9.0% of mass 176	4.6 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1	10PPB	B2451.D	11/04/03	16:46
02	STD2	20PPB	B2452.D	11/04/03	17:21
03	STD3	50PPB	B2453.D	11/04/03	17:57
04	STD4	100PPB	B2454.D	11/04/03	18:33
05	STD5	200PPB	B2455.D	11/04/03	19:08

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Lab File ID: B3358.D BFB Injection Date: 12/31/03
 Instrument ID: MSVOA5 BFB Injection Time: 10:46
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.7
75	30.0 - 66.0% of mass 95	41.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 120.0% of mass 95	76.1
175	4.0 - 9.0% of mass 174	5.3 (6.9)1
176	93.0 - 101.0% of mass 174	73.4 (96.5)1
177	5.0 - 9.0% of mass 176	4.8 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	CCV	B3359.D	12/31/03	11:08
02	MEDBLK1	MED BLK	B3361.D	12/31/03	12:19
03	MEDBLK1MS	MEDBLKMS	B3362.D	12/31/03	13:08
04	SEWALLS	698902 625.0	B3363.D	12/31/03	14:04
05	SEBOTTS	698903 625.0	B3367.D	12/31/03	16:32
06	SWWALLS	698904 125.0	B3368.D	12/31/03	17:07
07	VWALLS	698905 125.0	B3369.D	12/31/03	17:42
08	SEBOTTS DL	698903 1250.0	B3372.D	12/31/03	19:27

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Lab File ID: B3378.D BFB Injection Date: 01/02/04
 Instrument ID: MSVOA5 BFB Injection Time: 11:33
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.4
75	30.0 - 66.0% of mass 95	38.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.1
175	4.0 - 9.0% of mass 174	5.1 (7.4)1
176	93.0 - 101.0% of mass 174	66.9 (96.8)1
177	5.0 - 9.0% of mass 176	4.4 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	CCV	B3379.D	01/02/04	11:54
02	SOILBLK1	VLK	B3381.D	01/02/04	13:05
03	SOILBLK1MS	VLKMS	B3382.D	01/02/04	13:40
04	SWALLS	698901 1.0	B3383.D	01/02/04	14:15

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID: B3396.D BFB Injection Date: 01/03/04
 Instrument ID: MSVOA5 BFB Injection Time: 18:18
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	38.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	71.2
175	4.0 - 9.0% of mass 174	5.0 (7.0)1
176	93.0 - 101.0% of mass 174	68.3 (95.9)1
177	5.0 - 9.0% of mass 176	4.5 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2	CCV	B3397.D	01/03/04	18:39
02	MEDBLK2	VBLK	B3399.D	01/03/04	19:50
03	MEDBLK2MS	VBLKMS	B3400.D	01/03/04	20:25
04	WWALLSMS	698905 125MS	B3401.D	01/03/04	21:01
05	WWALLMSD	698905 125MSD	B3402.D	01/03/04	21:37

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID: B3406.D BFB Injection Date: 01/06/04
 Instrument ID: MSVOA5 BFB Injection Time: 10:53
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.9
75	30.0 - 66.0% of mass 95	37.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	71.2
175	4.0 - 9.0% of mass 174	5.1 (7.2)1
176	93.0 - 101.0% of mass 174	68.5 (96.3)1
177	5.0 - 9.0% of mass 176	4.5 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2	CCV	B3407.D	01/06/04	11:14
02	SOILBLK2	VBLK	B3409.D	01/06/04	12:32
03	SOILBLK2MS	VBLKMS	B3410.D	01/06/04	13:07
04	NWALL-S	697127 2.0	B3413.D	01/06/04	15:10
05	NEWALL-S	697128 5.0	B3414.D	01/06/04	16:09
06	EXCDUP-S	697129 2.0	B3415.D	01/06/04	16:50
07	WWALL2-S	699602 2.0	B3416.D	01/06/04	17:25
08	RW1-BOTTS	699604 1.0	B3418.D	01/06/04	18:35

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID: B3428.D BFB Injection Date: 01/07/04
 Instrument ID: MSVOA5 BFB Injection Time: 11:03
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.0
75	30.0 - 66.0% of mass 95	37.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.1
175	4.0 - 9.0% of mass 174	5.1 (7.0)1
176	93.0 - 101.0% of mass 174	70.0 (95.8)1
177	5.0 - 9.0% of mass 176	4.6 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD3	CCV	B3429.D	01/07/04	11:24
02	SOILBLK3	VLK	B3431.D	01/07/04	13:06
03	SOILBLK3MS	VLKMS	B3432.D	01/07/04	13:53
04	NWWALL-BOTTS	697119 2.0	B3438.D	01/07/04	17:28
05	NWWALL-SHALS	697121 2.0	B3439.D	01/07/04	18:03
06	WBOTT2-S	699603 2.0	B3440.D	01/07/04	18:38

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID: B3447.D BFB Injection Date: 01/08/04
 Instrument ID: MSVOA5 BFB Injection Time: 11:06
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	38.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	69.5
175	4.0 - 9.0% of mass 174	5.0 (7.2)1
176	93.0 - 101.0% of mass 174	67.4 (97.0)1
177	5.0 - 9.0% of mass 176	4.7 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD3	CCV	B3448.D	01/08/04	11:27
02	MEDBLK3	VBLK	B3451.D	01/08/04	13:42
03	MEDBLK3MS	VBLKMS	B3452.D	01/08/04	14:17
04	NSHAL-S	697123 125.0	B3453.D	01/08/04	15:09
05	NSHAL-SDL	697123 625.0	B3456.D	01/08/04	16:58
06	NMID-S	697126 125.0	B3457.D	01/08/04	17:33

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Lab File ID (Standard): B3359.D Date Analyzed: 12/31/03
 Instrument ID: MSVOA5 Time Analyzed: 11:08
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1		IS2		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR ST	101755	9.47	572782	11.30	568510	16.82
UPPER LIMIT	203510	8.97	1145564	10.80	1137020	16.32
LOWER LIM	50878	9.97	286391	11.80	284255	17.32
EPA SAMPLE NO.						
01 MEDBLK1	94300	9.49	564942	11.31	542156	16.84
02 MEDBLK1MS	99829	9.48	595137	11.32	553328	16.85
03 SEWALLS	102647	9.49	623251	11.31	599966	16.85
04 SEBOTT	112777	9.49	702347	11.31	687354	16.84
05 SWWALLS	107024	9.49	678080	11.30	694476	16.84
06 WWALLS	114078	9.49	684008	11.30	695234	16.84
07 SEBOTTSDL	115867	9.48	731260	11.30	717677	16.83

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID (Standard): B3379.D Date Analyzed: 01/02/04
 Instrument ID: MSVOA5 Time Analyzed: 11:54
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR ST	118716	9.49	810942	11.31	768819	16.84
UPPER LIMIT	237432	8.99	1621884	10.81	1537638	16.34
LOWER LIM	59358	9.99	405471	11.81	384410	17.34
EPA SAMPLE NO.						
01 SOILBLK1	109635	9.49	746859	11.31	706281	16.84
02 SOILBLK1MS	115247	9.48	740346	11.31	702135	16.84
03 SWALLS	104549	9.49	677440	11.31	655974	16.84

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID (Standard): B3397.D Date Analyzed: 01/03/04
 Instrument ID: MSVOA5 Time Analyzed: 18:39
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR ST	129236	9.51	836154	11.34	824974	16.86
	UPPER LIMIT	258472	9.01	1672308	10.84	1649948	16.36
	LOWER LIM	64618	10.01	418077	11.84	412487	17.36
	EPA SAMPLE NO.						
01	MEDBLK2	119756	9.50	765223	11.33	755691	16.85
02	MEDBLK2MS	119948	9.50	766221	11.33	754398	16.86
03	WWALLSMS	120369	9.50	761506	11.32	762284	16.85
04	WWALLSMS	114609	9.49	730609	11.32	737703	16.85

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Lab File ID (Standard): B3407.D Date Analyzed: 01/06/04
 Instrument ID: MSVOA5 Time Analyzed: 11:14
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR ST	114978	9.48	791229	11.31	763948	16.83
	UPPER LIMIT	229956	8.98	1582458	10.81	1527896	16.33
	LOWER LIMIT	57489	9.98	395615	11.81	381974	17.33
	EPA SAMPLE NO.						
01	SOILBLK2	114765	9.48	812358	11.30	764843	16.83
02	SOILBLK2MS	109973	9.48	777950	11.30	750509	16.83
03	NWALL-S	101502	9.47	650221	11.29	610525	16.82
04	NEWALL-S	104238	9.47	728920	11.30	639753	16.83
05	EXCDUP-S	96807	9.47	674071	11.29	609666	16.82
06	WWALL2-S	108280	9.47	765552	11.29	733545	16.82
07	RW1-BOTTS	103119	9.46	727073	11.29	671904	16.82

IS1 = Bromochloromethane

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119
 Lab File ID (Standard): B3429.D Date Analyzed: 01/07/04
 Instrument ID: MSVOA5 Time Analyzed: 11:24
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR ST	114386	9.47	802387	11.29	778707	16.82
UPPER LIMIT	228772	8.97	1604774	10.79	1557414	16.32
LOWER LIM	57193	9.97	401194	11.79	389354	17.32
EPA SAMPLE NO.						
01 SOILBLK3	111052	9.47	759484	11.29	724859	16.82
02 SOILBLK3MS	115524	9.47	779604	11.29	741960	16.82
03 NWWALL-BO	97548	9.46	679265	11.29	594301	16.82
04 NWWALL-SH	90117	9.46	618096	11.28	592936	16.81
05 WBOTT2-S	102630	9.46	706978	11.28	676952	16.81

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

109

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119
 Lab File ID (Standard): B3448.D Date Analyzed: 01/08/04
 Instrument ID: MSVOA5 Time Analyzed: 11:27
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR ST	125631	9.46	793934	11.28	792475	16.81
UPPER LIMIT	251262	8.96	1587868	10.78	1584950	16.31
LOWER LIM	62816	9.96	396967	11.78	396238	17.31
EPA SAMPLE NO.						
01 MEDBLK3	116329	9.46	739588	11.29	757927	16.81
02 MEDBLK3MS	117151	9.46	730230	11.28	730384	16.81
03 NSHAL-S	117613	9.46	760620	11.28	754580	16.82
04 NSHAL-SDL	120470	9.45	749590	11.28	747263	16.81
05 NMID-S	114990	9.46	735792	11.27	749588	16.80

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, New York 14414-9519
Phone: (585) 226-5353 • **FAX:** (585) 226-8696
Website: www.dec.state.ny.us



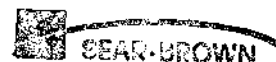
Erin M. Crotty
Commissioner

February 2, 2004

Michael P. Storonsky
Senior Associate
Sear-Brown
85 Metro Park
Rochester, New York 14623

RECEIVED

FEB 03 2004



Dear Mr. Storonsky:

RE: Buell Automatics, Inc.
Site #V00330-8
IRM Split Sample Results

Enclosed please find the laboratory summary sheets for samples collected by the Department during the December 2003 IRM. Please include these results in the IRM report that is being prepared. Additionally, a copy of the complete ASP data package can be provided to you upon request.

Please contact me at (585) 226-5357 if you have any questions about these sample results.

Sincerely,

Frank Sowers, P.E.
Environmental Engineer 1
Division of Environmental Remediation

cc: w/enclosure
Joe Albert
Joe Crua

cc: w/o enclosure
Richard Lawton (Buell Automatics)
Jerry Greenfield, Esq.
Bart Putzig

CASE NARRATIVE

COMPANY: NYSDEC – Region 8

PROJECT: NYSDEC

SUBMISSION #: R2419777

SDG#: 12423

CASE NO.: RH803

NYS DEC samples were collected on 12/23/03 – 12/31/03 and received at CAS on 1/02/04 in good condition at a cooler temperature of 4 °C. See CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested. An ASP-B report has been prepared.

VOLATILE ORGANIC ANALYSIS

Eight soil samples were analyzed for the Target Compound List (TCL) of volatile organics by OLM4.2 from the NYS DEC June 2000 ASP. Library Searches against the NBS/EPA library were conducted on all samples, reanalyses, and blanks. The 30 largest peaks within 10 % of the nearest Internal Standard were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been reported flagged with a "J" as estimated.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All sample surrogate recoveries were within QC limits except SMC3 for sample D323 01. The sample was re-analyzed at a dilution and the surrogate recoveries were all within QC limits.

The Blank Spike recoveries were all within QC limits. The Matrix Spike/Matrix spike duplicate recoveries from sample D323 08 were all within QC limits.

Samples D323 01 and D323 02 were re-analyzed at dilutions to bring target analytes within the calibration range of the method. Both dilutions were reported with analytes over the calibration range flagged with an "E". Sample D323 04 was analyzed initially at a dilution due to matrix interference from petroleum hydrocarbons.

All Laboratory Blanks were free from contamination.

No other analytical or QC problems were encountered during the analysis of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Michael K. Perry
Laboratory Manager

1/28/04
Date

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 01

South
wall
Just under
Footer
5-6' Depth

Lab Name: cas/roch

Contract: C004244

Lab Code: 10145

Case No.: RH803

SAS No.: _____

SDG No.: 12423

Matrix: (soil/water) SOIL

Lab Sample ID: 700287 5.0

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3441.D

Level: (low/med) LOW

Date Received: 01/02/04

% Moisture: not dec. 16.5

Date Analyzed: 01/07/04

GC Column: DB624 ID: 0.32 (mm)

Dilution Factor: 105.0

Soil Extract Volume _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	60	U	
74-87-3	Chloromethane	60	U	
75-01-4	Vinyl chloride	60	U	
74-83-9	Bromomethane	60	U	
75-00-3	Chloroethane	60	U	
75-69-4	Trichlorofluoromethane	60	U	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	60	U	
67-64-1	Acetone	46	J	
75-35-4	1,1-Dichloroethene	60	U	
79-20-9	Methyl Acetate	60	U	
75-09-2	Methylene chloride	60	U	
75-15-0	Carbon disulfide	60	U	
1634-04-4	Methyl tert-Butyl Ether	60	U	
156-60-5	trans-1,2-Dichloroethene	60	U	
75-34-3	1,1-Dichloroethane	60	U	
78-93-3	2-Butanone	60	U	
156-59-2	cis-1,2-Dichloroethene	230		
67-86-3	Chloroform	60	U	
110-82-7	Cyclohexane	60	U	
107-06-2	1,2-Dichloroethane	60	U	
71-55-6	1,1,1-Trichloroethane	44	J	
56-23-5	Carbon tetrachloride	60	U	
71-43-2	Benzene	60	U	
79-01-6	Trichloroethene	2800	E	
108-87-2	Methylcyclohexane	49	J	
78-87-5	1,2-Dichloropropane	60	U	
75-27-4	Bromodichloromethane	60	U	
10061-01-5	cis-1,3-Dichloropropene	60	U	
10061-02-6	trans-1,3-Dichloropropene	60	U	
79-00-5	1,1,2-Trichloroethane	60	U	
124-48-1	Dibromochloromethane	60	U	
75-25-2	Bromoform	60	U	
108-10-1	4-Methyl-2-pentanone	60	U	
108-88-3	Toluene	11	J	
591-78-6	2-Hexanone	60	U	
127-18-4	Tetrachloroethene	77		
106-93-4	1,2-Dibromoethane	60	U	
108-90-7	Chlorobenzene	60	U	
100-41-4	Ethylbenzene	65		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 01

*South Wall
Just Under
Footer
5-6' Depth*

Lab Name: cas\roch Contract: C004244

Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423

Matrix: (soil/water) SOIL Lab Sample ID: 700287 5.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3441.D

Level: (low/med) LOW Date Received: 01/02/04

% Moisture: not dec. 16.5 Date Analyzed: 01/07/04

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 105.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-38-3/106-42-3	(m+p)Xylene	86	
95-47-6	o-Xylene	100	
100-42-5	Styrene	60	U
98-82-8	Isopropylbenzene	130	
79-34-5	1,1,2,2-Tetrachloroethane	60	U
541-73-1	1,3-Dichlorobenzene	60	U
106-46-7	1,4-Dichlorobenzene	60	U
95-50-1	1,2-Dichlorobenzene	60	U
96-12-8	1,2-Dibromo-3-chloropropane	60	U
120-82-1	1,2,4-Trichlorobenzene	60	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D323 01

*South
Wall;
Just under
Footer
5-6' Depth*

Lab Name: cas/roch Contract: C004244
Lab Code: 10145 Case No.: RH803 SAS No.: SDG No.: 12423
Matrix: (soil/water) SOIL Lab Sample ID: 700287 5.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3441.D
Level: (low/med) LOW Date Received: 01/02/04
% Moisture: not dec. 16.5 Date Analyzed: 01/07/04
GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0 5.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown cyclic alkane	18.58	4600	J
2.	unknown alkane	19.01	3100	J
3. 005911-04-6	Nonane, 3-methyl-	19.27	3400	JN
4. 000124-18-5	Decane	19.98	19000	JN
5. 002847-72-5	Decane, 4-methyl-	20.58	4800	JN
6. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.77	2900	JN
7.	unknown cyclic alkane	21.25	5400	J
8. 006975-98-0	Decane, 2-methyl-	21.57	3300	JN
9. 013151-34-3	Decane, 3-methyl-	21.75	2900	JN
10.	unknown hydrocarbon	22.30	3300	J
11. 001120-21-4	Undecane	22.40	12000	JN
12. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.60	3000	JN
13.	unknown hydrocarbon	22.83	4300	J
14.	unknown hydrocarbon	23.64	5600	J
15. 000112-40-3	Dodecane	24.64	2900	JN

VOLATILE ORGANICS ANALYSIS DATA SHEET

D323 01DL

South Wall
Just Under
Footer
5-6' Depth

Lab Name: cas/roch

Contract: C004244

Lab Code: 10145

Case No.: RH803

SAS No.:

SDG No.: 12423

Matrix: (soil/water) SOIL

Lab Sample ID: 700287 125

Sample wt/vol: 4.0 (g/ml) G

Lab File ID: R3361.D

Level: (low/med) MED

Date Received: 1/2/04

% Moisture: not dec. 16.5

Date Analyzed: 1/9/04

GC Column: ZB-624 ID: 0.25 (mm)

Dilution Factor: 50 125

Soil Extract Volume 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1500	U	
74-87-3	Chloromethane	1500	U	
75-01-4	Vinyl Chloride	1500	U	
74-83-9	Bromomethane	1500	U	
75-00-3	Chloroethane	1500	U	
75-69-4	Trichlorofluoromethane	1500	U	
75-13-1	1,1,2-Trichloro-1,2,2-trifluoroeth	1500	U	
75-35-4	1,1-Dichloroethene	1500	U	
67-64-1	Acetone	1500	U	
75-15-0	Carbon Disulfide	1500	U	
79-20-9	Methyl Acetate	1500	U	
75-09-2	Methylene Chloride	1500	U	
1634-04-4	Methyl tert-butyl Ether	1500	U	
156-60-5	trans-1,2-Dichloroethene	1500	U	
75-34-3	1,1-Dichloroethane	1500	U	
156-59-2	cis-1,2-Dichloroethene	1500	U	
78-93-3	2-Butanone (MEK)	1500	U	
67-66-3	Chloroform	1500	U	
110-82-7	Cyclohexane	1500	U	
107-06-2	1,2-Dichloroethane	1500	U	
71-55-6	1,1,1-Trichloroethane	1500	U	
56-23-5	Carbontetrachloride	1500	U	
71-43-2	Benzene	1500	U	
79-01-6	Trichloroethene	1700	D	
108-87-2	Methylcyclohexane	1500	U	
78-87-5	1,2-Dichloropropane	1500	U	
75-27-4	Bromodichloromethane	1500	U	
10061-01-5	cis-1,3-Dichloropropene	1500	U	
108-10-1	4-Methyl-2-pentanone	1500	U	
108-88-3	Toluene	1500	U	
10061-02-6	trans-1,3-Dichloropropene	1500	U	
79-00-5	1,1,2-Trichloroethane	1500	U	
75-25-2	Bromoform	1500	U	
127-18-4	Tetrachloroethene	1500	U	
591-78-6	2-Hexanone	1500	U	
124-48-1	Dibromochloromethane	1500	U	
106-93-4	1,2-Dibromoethane	1500	U	
108-90-7	Chlorobenzene	1500	U	
100-41-4	Ethylbenzene	1500	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 01DL

*South Wg 11
Just Under
Footer
5-6' Depth*

Lab Name: cas\roch Contract: C004244
 Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
 Matrix: (soil/water) SOIL Lab Sample ID: 700287 125
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3361.D
 Level: (low/med) MED Date Received: 1/2/04
 % Moisture: not dec. 16.5 Date Analyzed: 1/9/04
 GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 50 125
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	(m+p) Xylene	1500	U	
1330-20-7	o-Xylene	1500	U	
100-42-5	Styrene	1500	U	
98-82-8	Isopropylbenzene	1500	U	
79-34-5	1,1,2,2-Tetrachloroethane	1500	U	
541-73-1	1,3-Dichlorobenzene	1500	U	
106-46-7	1,4-Dichlorobenzene	1500	U	
95-50-1	1,2-Dichlorobenzene	1500	U	
96-12-8	1,2-Dibromo-3-Chloropropane	1500	U	
120-82-1	1,2,4-Trichlorobenzene	1500	U	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D323 01DL

*South
wall
Just Under
Footer
5-6' Depth*

Lab Name: cas/roch Contract: C004244

Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423

Matrix: (soil/water) SOIL Lab Sample ID: 700287 125

Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3361.D

Level: (low/med) MED Date Received: 1/2/04

% Moisture: not dec. 16.5 Date Analyzed: 1/9/04

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 50 125

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 19

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000871-83-0	Nonane, 2-methyl-	11.86	6000	JND
2. 000124-18-5	Decane	12.16	18000	JND
3. 017302-28-2	Nonane, 2,6-dimethyl-	12.33	5200	JND
4.	Unknown Hydrocarbon	12.59	12000	JD
5. 013151-34-3	Decane, 3-methyl-	12.70	4600	JND
6.	Unknown Hydrocarbon	12.90	26000	JD
7.	Unknown Hydrocarbon	12.95	4000	JD
8.	Unknown Hydrocarbon	13.08	4900	JD
9.	Unknown Hydrocarbon	13.22	5400	JD
10.	Unknown Hydrocarbon	13.34	9200	JD
11.	Unknown Hydrocarbon	13.48	6700	JD
12. 000112-40-3	Dodecane	13.57	11000	JND
13.	Unknown Aromatic	13.72	4800	JD
14.	Unknown Aromatic	13.92	5000	JD
15.	Unknown Hydrocarbon	14.01	12000	JD
16.	Unknown Aromatic	14.12	4400	JD
17.	Unknown Cyclic Hydrocarbon	14.19	6900	JD
18.	Unknown Hydrocarbon	14.87	4000	JD
19.	Unknown Cyclic Hydrocarbon	15.01	4600	JD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. South End
Bottom of
Excavation

Lab Name: cas/roch Contract: C004244
Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
Matrix: (soil/water) SOIL Lab Sample ID: 700288 500.0
Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3461.D
Level: (low/med) MED Date Received: 01/02/04
% Moisture: not dec. 16.2 Date Analyzed: 01/08/04
GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0 500
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	6000	U	
74-87-3	Chloromethane	6000	U	
75-01-4	Vinyl chloride	6000	U	
74-83-9	Bromomethane	6000	U	
75-00-3	Chloroethane	6000	U	
75-69-4	Trichlorofluoromethane	6000	U	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	6000	U	
75-35-4	1,1-Dichloroethene	610	J	
67-64-1	Acetone	6000	U	
75-15-0	Carbon disulfide	6000	U	
79-20-9	Methyl Acetate	6000	U	
75-09-2	Methylene chloride	6000	U	
1634-04-4	Methyl tert-Butyl Ether	6000	U	
156-60-5	trans-1,2-Dichloroethene	6000	U	
75-34-3	1,1-Dichloroethane	1200	J	
78-93-3	2-Butanone	6000	U	
156-59-2	cis-1,2-Dichloroethene	150000	E	
67-66-3	Chloroform	6000	U	
107-06-2	1,2-Dichloroethane	6000	U	
71-55-6	1,1,1-Trichloroethane	7700		
110-82-7	Cyclohexane	6000	U	
56-23-5	Carbon tetrachloride	6000	U	
71-43-2	Benzene	6000	U	
79-01-6	Trichloroethene	1500	J	
108-87-2	Methylcyclohexane	800	J	
78-87-5	1,2-Dichloropropane	6000	U	
75-27-4	Bromodichloromethane	6000	U	
10061-01-5	cis-1,3-Dichloropropene	6000	U	
10061-02-6	trans-1,3-Dichloropropene	6000	U	
79-00-5	1,1,2-Trichloroethane	6000	U	
124-48-1	Dibromochloromethane	6000	U	
75-25-2	Bromoform	6000	U	
108-10-1	4-Methyl-2-pentanone	6000	U	
108-88-3	Toluene	730	J	
127-18-4	Tetrachloroethene	6000	U	
591-78-6	2-Hexanone	6000	U	
106-93-4	1,2-Dibromoethane	6000	U	
108-90-7	Chlorobenzene	6000	U	
100-41-4	Ethylbenzene	1800	J	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 02

*South End
Bottom of
Excavation*

Lab Name: cas\roch Contract: C004244
 Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
 Matrix: (soil/water) SOIL Lab Sample ID: 700288 500.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3461.D
 Level: (low/med) MED Date Received: 01/02/04
 % Moisture: not dec. 16.2 Date Analyzed: 01/08/04
 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0 500
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-38-3/106-42-3	(m+p)Xylene	4400	J
95-47-6	o-Xylene	3900	J
100-42-5	Styrene	6000	U
98-82-8	Isopropylbenzene	1800	J
79-34-5	1,1,2,2-Tetrachloroethane	6000	U
541-73-1	1,3-Dichlorobenzene	6000	U
106-46-7	1,4-Dichlorobenzene	6000	U
95-50-1	1,2-Dichlorobenzene	6000	U
96-12-8	1,2-Dibromo-3-chloropropane	6000	U
120-82-1	1,2,4-Trichlorobenzene	6000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D323 02

*South End
Bottom
of
Excavation*

Lab Name: cas/roch Contract: C004244
 Lab Code: 10145 Case No.: RH803 SAS No.: SDG No.: 12423
 Matrix: (soil/water) SOIL Lab Sample ID: 700288 500.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3461.D
 Level: (low/med) MED Date Received: 01/02/04
 % Moisture: not dec. 16.2 Date Analyzed: 01/08/04
 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000527-53-7	Benzene, 1,2,3,5-tetramethyl-	23.92	31000	JN
2.	unknown hydrocarbon	24.06	64000	J
3. 000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	24.81	47000	JN
4. 000124-18-5	Decane	19.95	160000	JN
5. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.76	53000	JN
6. 001678-93-9	Cyclohexane, butyl-	21.24	70000	JN
7. 000141-93-5	Benzene, 1,3-diethyl-	22.18	42000	JN
8.	unknown hydrocarbon	22.29	40000	J
9. 001120-21-4	Undecane	22.39	63000	JN
10. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.59	49000	JN
11.	unknown aromatic hydrocarbon	22.83	39000	J
12. 000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	22.98	37000	JN
13.	unknown aromatic	23.26	53000	J
14.	unknown hydrocarbon	23.45	39000	J
15.	unknown hydrocarbon	23.62	65000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. *South End*
Bottom of
Excavation

D323 02DL

Lab Name: cas/roch Contract: C004244
Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
Matrix: (soil/water) SOIL Lab Sample ID: 700288 625
Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3365.D
Level: (low/med) MED Date Received: 1/2/04
% Moisture: not dec. 16.2 Date Analyzed: 1/9/04
GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 5.0 685
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	7400	U	
74-87-3	Chloromethane	7400	U	
75-01-4	Vinyl Chloride	7400	U	
74-83-9	Bromomethane	7400	U	
75-00-3	Chloroethane	7400	U	
75-69-4	Trichlorofluoromethane	7400	U	
~~76-13-1~~	1,1,2-Trichloro-1,2,2-trifluoroeth	7400	U	
75-35-4	1,1-Dichloroethene	7400	U	
67-64-1	Acetone	7400	U	
75-15-0	Carbon Disulfide	7400	U	
79-20-9	Methyl Acetate	7400	U	
75-09-2	Methylene Chloride	7400	U	
1634-04-4	Methyl tert-butyl Ether	7400	U	
156-60-5	trans-1,2-Dichloroethene	7400	U	
75-34-3	1,1-Dichloroethane	1000	JD	
156-59-2	cis-1,2-Dichloroethene	140000	D	
78-93-3	2-Butanone (MEK)	7400	U	
67-66-3	Chloroform	7400	U	
110-82-7	Cyclohexane	7400	U	
107-06-2	1,2-Dichloroethane	7400	U	
71-55-6	1,1,1-Trichloroethane	7600	D	
56-23-5	Carbontetrachloride	7400	U	
71-43-2	Benzene	7400	U	
79-01-6	Trichloroethene	1100	JD	
108-87-2	Methylcyclohexane	7400	U	
78-87-5	1,2-Dichloropropane	7400	U	
75-27-4	Bromodichloromethane	7400	U	
10061-01-5	cis-1,3-Dichloropropene	7400	U	
108-10-1	4-Methyl-2-pentanone	7400	U	
108-88-3	Toluene	7400	U	
10061-02-6	trans-1,3-Dichloropropene	7400	U	
79-00-5	1,1,2-Trichloroethane	7400	U	
75-25-2	Bromoform	7400	U	
127-18-4	Tetrachloroethene	7400	U	
591-78-6	2-Hexanone	7400	U	
124-48-1	Dibromochloromethane	7400	U	
106-93-4	1,2-Dibromoethane	7400	U	
108-90-7	Chlorobenzene	7400	U	
100-41-4	Ethylbenzene	1500	JD	

VOLATILE ORGANICS ANALYSIS DATA SHEET

D323 02DL

South End
Bottom of
Excavation

Lab Name: cas\roch Contract: C004244

Lab Code: 10145 Case No.: RH803 SAS No.: SDG No.: 12423

Matrix: (soil/water) SOIL Lab Sample ID: 700288 625

Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3365.D

Level: (low/med) MED Date Received: 1/2/04

% Moisture: not dec. 16.2 Date Analyzed: 1/9/04

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 5.0 625

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	(m+p) Xylene	3700	JD
1330-20-7	o-Xylene	3400	JD
100-42-5	Styrene	7400	U
98-82-8	Isopropylbenzene	1500	JD
79-34-5	1,1,2,2-Tetrachloroethane	7400	U
541-73-1	1,3-Dichlorobenzene	7400	U
106-46-7	1,4-Dichlorobenzene	7400	U
95-50-1	1,2-Dichlorobenzene	7400	U
96-12-8	1,2-Dibromo-3-Chloropropane	7400	U
120-82-1	1,2,4-Trichlorobenzene	7400	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

South End
Bottom
of
Excavation

D323 02DL

Lab Name: cas/roch Contract: C004244

Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423

Matrix: (soil/water) SOIL Lab Sample ID: 700288 625

Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3365.D

Level: (low/med) MED Date Received: 1/2/04

% Moisture: not dec. 16.2 Date Analyzed: 1/9/04

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 5.0 6.25

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 20

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000124-18-5	Decane	12.16	100000	JND
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	12.47	57000	JND
3. 001678-93-9	Cyclohexane, butyl-	12.60	92000	JND
4. _____	Unknown Hydrocarbon	12.89	67000	JD
5. 000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	13.08	35000	JND
6. _____	Unknown Aromatic	13.22	55000	JD
7. _____	Unknown Hydrocarbon	13.34	37000	JD
8. _____	Unknown Hydrocarbon	13.65	47000	JD
9. 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	13.71	120000	JND
10. _____	Unknown Hydrocarbon	13.86	39000	JD
11. _____	Unknown Cyclic Hydrocarbon	13.92	68000	JD
12. _____	Unknown Cyclic Hydrocarbon	13.99	85000	JD
13. _____	Unknown Hydrocarbon	14.11	50000	JD
14. _____	Unknown Hydrocarbon	14.19	63000	JD
15. _____	Unknown Hydrocarbon	14.26	46000	JD
16. 001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-	14.49	56000	JND
17. 001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-	14.71	63000	JND
18. _____	Unknown Cyclic Hydrocarbon	14.80	36000	JD
19. _____	Unknown Cyclic Hydrocarbon	14.87	48000	JD
20. 000091-57-6	Naphthalene, 2-methyl-	15.00	44000	JND

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 03

North Side
Seep
@ 5' Depth

Lab Name: cas\roch

Contract: C004244

Lab Code: 10145

Case No.: RH803

SAS No.:

SDG No.: 12423

Matrix: (soil/water) SOIL

Lab Sample ID: 700289 2.0

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3473.D

Level: (low/med) LOW

Date Received: 01/02/04

% Moisture: not dec. 18.4

Date Analyzed: 01/09/04

GC Column: DB624 ID: 0.32 (mm)

Dilution Factor: 1.0 2.0

Soil Extract Volume (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25	U	
74-87-3	Chloromethane	25	U	
75-01-4	Vinyl chloride	25	U	
74-83-9	Bromomethane	25	U	
75-00-3	Chloroethane	25	U	
75-69-4	Trichlorofluoromethane	25	U	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	4	J	
67-64-1	Acetone	10	J	
75-35-4	1,1-Dichloroethene	25	U	
79-20-9	Methyl Acetate	25	U	
75-09-2	Methylene chloride	25	U	
75-15-0	Carbon disulfide	25	U	
1634-04-4	Methyl tert-Butyl Ether	25	U	
156-60-5	trans-1,2-Dichloroethene	25	U	
75-34-3	1,1-Dichloroethane	25	U	
78-93-3	2-Butanone	25	U	
156-59-2	cis-1,2-Dichloroethene	12	J	
67-66-3	Chloroform	25	U	
110-82-7	Cyclohexane	8	J	
107-06-2	1,2-Dichloroethane	25	U	
71-55-6	1,1,1-Trichloroethane	25	U	
56-23-5	Carbon tetrachloride	25	U	
71-43-2	Benzene	25	U	
79-01-6	Trichloroethene	78		
108-87-2	Methylcyclohexane	27		
78-87-5	1,2-Dichloropropane	25	U	
75-27-4	Bromodichloromethane	25	U	
10061-01-5	cis-1,3-Dichloropropene	25	U	
10061-02-6	trans-1,3-Dichloropropene	25	U	
79-00-5	1,1,2-Trichloroethane	25	U	
124-48-1	Dibromochloromethane	25	U	
75-25-2	Bromoform	25	U	
108-10-1	4-Methyl-2-pentanone	25	U	
108-88-3	Toluene	25	U	
591-78-6	2-Hexanone	25	U	
127-18-4	Tetrachloroethene	25	U	
106-93-4	1,2-Dibromoethane	25	U	
108-90-7	Chlorobenzene	25	U	
100-41-4	Ethylbenzene	25	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 03

*North
Side*

Lab Name: cas\roch

Contract: C004244

Lab Code: 10145

Case No.: RH803

SAS No.: _____

SDG No.: 12423

Seep@

Matrix: (soil/water) SOIL

Lab Sample ID: 700289 2.0

5' Depth

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3473.D

Level: (low/med) LOW

Date Received: 01/02/04

% Moisture: not dec. 18.4

Date Analyzed: 01/09/04

GC Column: DB624 ID: 0.32 (mm)

Dilution Factor: 102.0

Soil Extract Volume _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-38-3/106-42-3	(m+p)Xylene	25	U
95-47-6	o-Xylene	25	U
100-42-5	Styrene	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D323 03

*North Side
Seep
@ 5' Depth*

Lab Name: cas\roch Contract: C004244
 Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
 Matrix: (soil/water) SOIL Lab Sample ID: 700289 2.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3473.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 18.4 Date Analyzed: 01/09/04
 GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	19.92	96	J
2. 002847-72-5	Decane, 4-methyl-	20.54	130	JN
3.	unknown hydrocarbon	22.26	110	J
4. 001120-21-4	Undecane	22.36	120	JN
5.	unknown cyclic alkane	22.43	82	J
6. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.56	170	JN
7.	unknown hydrocarbon	22.79	220	J
8.	unknown hydrocarbon	22.93	88	J
9.	unknown hydrocarbon	23.41	130	J
10.	unknown hydrocarbon	23.59	270	J
11.	unknown hydrocarbon	24.02	170	J
12. 017301-23-4	Undecane, 2,6-dimethyl-	24.92	160	JN
13.	unknown hydrocarbon	25.12	150	J
14. 062016-34-6	Octane, 2,3,7-trimethyl-	26.12	190	JN
15.	unknown hydrocarbon	26.41	120	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 04

*North
Side wall
5' Depth*

Lab Name: cas\roch

Contract: C004244

Lab Code: 10145

Case No.: RH803

SAS No.: _____

SDG No.: 12423

Matrix: (soil/water) SOIL

Lab Sample ID: 700290 5.0

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3433.D

Level: (low/med) LOW

Date Received: 01/02/04

% Moisture: not dec. 24.1

Date Analyzed: 01/07/04

GC Column: DB624 ID: 0.32 (mm)

Dilution Factor: 1.0 5.0

Soil Extract Volume _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

75-71-8	Dichlorodifluoromethane	66	U
74-87-3	Chloromethane	66	U
75-01-4	Vinyl chloride	66	U
74-83-9	Bromomethane	66	U
75-00-3	Chloroethane	66	U
75-69-4	Trichlorofluoromethane	66	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	66	U
67-64-1	Acetone	30	J
75-35-4	1,1-Dichloroethene	66	U
79-20-9	Methyl Acetate	66	U
75-09-2	Methylene chloride	66	U
75-15-0	Carbon disulfide	66	U
1634-04-4	Methyl tert-Butyl Ether	66	U
156-60-5	trans-1,2-Dichloroethene	66	U
75-34-3	1,1-Dichloroethane	66	U
78-93-3	2-Butanone	66	U
156-59-2	cis-1,2-Dichloroethene	46	J
67-66-3	Chloroform	66	U
110-82-7	Cyclohexane	66	U
107-06-2	1,2-Dichloroethane	66	U
71-55-6	1,1,1-Trichloroethane	7	J
56-23-5	Carbon tetrachloride	66	U
71-43-2	Benzene	66	U
79-01-6	Trichloroethene	29	J
108-87-2	Methylcyclohexane	8	J
78-87-5	1,2-Dichloropropane	66	U
75-27-4	Bromodichloromethane	66	U
10061-01-5	cis-1,3-Dichloropropene	66	U
10061-02-6	trans-1,3-Dichloropropene	66	U
79-00-5	1,1,2-Trichloroethane	66	U
124-48-1	Dibromochloromethane	66	U
75-25-2	Bromoform	66	U
108-10-1	4-Methyl-2-pentanone	66	U
108-88-3	Toluene	66	U
591-78-6	2-Hexanone	66	U
127-18-4	Tetrachloroethene	66	U
106-93-4	1,2-Dibromoethane	66	U
108-90-7	Chlorobenzene	66	U
100-41-4	Ethylbenzene	66	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 04

*North
Side Wall
5' Depth*

Lab Name: casiroch Contract: C004244

Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423

Matrix: (soil/water) SOIL Lab Sample ID: 700290 5.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3433.D

Level: (low/med) LOW Date Received: 01/02/04

% Moisture: not dec. 24.1 Date Analyzed: 01/07/04

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 10 5.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-38-3/106-42-3	(m+p)Xylene	66	U
95-47-6	o-Xylene	10	J
100-42-5	Styrene	66	U
98-82-8	Isopropylbenzene	66	U
79-34-5	1,1,2,2-Tetrachloroethane	66	U
541-73-1	1,3-Dichlorobenzene	66	U
106-46-7	1,4-Dichlorobenzene	66	U
95-50-1	1,2-Dichlorobenzene	66	U
96-12-8	1,2-Dibromo-3-chloropropane	66	U
120-82-1	1,2,4-Trichlorobenzene	66	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D323 04

*North
Side wall
5' Depth*

Lab Name: cas\roch Contract: C004244
 Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
 Matrix: (soil/water) SOIL Lab Sample ID: 700290 5.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3433.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 24.1 Date Analyzed: 01/07/04
 GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0 5.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	19.97	560	J
2. 002847-72-5	Decane, 4-methyl-	20.58	500	JN
3. 001678-98-4	Cyclohexane, (2-methylpropyl)-	21.26	400	JN
4.	unknown hydrocarbon	22.30	450	J
5. 001120-21-4	Undecane	22.40	490	JN
6. 054411-02-8	Cyclohexane, 1-methyl-3-pentyl-	22.47	370	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.61	730	JN
8.	unknown hydrocarbon	22.84	870	J
9. 000099-87-6	Benzene, 1-methyl-4-(1-methylet	22.99	430	JN
10.	unknown hydrocarbon	23.46	460	J
11.	unknown hydrocarbon	23.64	780	J
12.	unknown hydrocarbon	24.07	600	J
13. 000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	24.82	470	JN
14. 017301-23-4	Undecane, 2,6-dimethyl-	24.96	570	JN
15.	unknown alkane	26.16	470	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 05

*West
Side Wall
(Added Area)*

Lab Name: cas/roch Contract: C004244
 Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
 Matrix: (soil/water) SOIL Lab Sample ID: 700291 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3435.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 15.3 Date Analyzed: 01/07/04
 GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U	
74-87-3	Chloromethane	12	U	
75-01-4	Vinyl chloride	12	U	
74-83-9	Bromomethane	12	U	
75-00-3	Chloroethane	12	U	
75-69-4	Trichlorofluoromethane	12	U	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	12	U	
67-64-1	Acetone	40		
75-35-4	1,1-Dichloroethene	12	U	
79-20-9	Methyl Acetate	12	U	
75-09-2	Methylene chloride	12	U	
75-15-0	Carbon disulfide	12	U	
1634-04-4	Methyl tert-Butyl Ether	12	U	
156-60-5	trans-1,2-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
78-93-3	2-Butanone	6	J	
156-59-2	cis-1,2-Dichloroethene	8	J	
67-66-3	Chloroform	12	U	
110-82-7	Cyclohexane	12	U	
107-06-2	1,2-Dichloroethane	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon tetrachloride	12	U	
71-43-2	Benzene	12	U	
79-01-6	Trichloroethene	24		
108-87-2	Methylcyclohexane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
75-27-4	Bromodichloromethane	12	U	
10061-01-5	cis-1,3-Dichloropropene	12	U	
10061-02-6	trans-1,3-Dichloropropene	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
124-48-1	Dibromochloromethane	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-pentanone	12	U	
108-88-3	Toluene	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
106-93-4	1,2-Dibromoethane	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 05

*West Side
Wall
(Added Area)*

Lab Name: cas\roch Contract: C004244
 Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
 Matrix: (soil/water) SOIL Lab Sample ID: 700291 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3435.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 15.3 Date Analyzed: 01/07/04
 GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-38-3/106-42-3	(m+p)Xylene	12	U
95-47-6	o-Xylene	12	U
100-42-5	Styrene	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. West Side

D323 05

Lab Name: cas\roch Contract: C004244
 Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
 Matrix: (soil/water) SOIL Lab Sample ID: 700291 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3435.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 15.3 Date Analyzed: 01/07/04
 GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

(Added Area)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	26.15	7	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 06

West Side
Bottom
(Added Area)

Lab Name: cas\roch

Contract: C004244

Lab Code: 10145

Case No.: RH803

SAS No.: _____

SDG No.: 12423

Matrix: (soil/water) SOIL

Lab Sample ID: 700292 1.0

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3444.D

Level: (low/med) LOW

Date Received: 01/02/04

% Moisture: not dec. 19.9

Date Analyzed: 01/07/04

GC Column: DB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	12	U
67-64-1	Acetone	5	J
75-35-4	1,1-Dichloroethene	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene chloride	12	U
75-15-0	Carbon disulfide	12	U
1634-04-4	Methyl tert-Butyl Ether	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
156-59-2	cis-1,2-Dichloroethene	7	J
67-66-3	Chloroform	12	U
110-82-7	Cyclohexane	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	8	J
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

West Side

Lab Name: cas/roch

Contract: C004244

D323 06

Bottom

Lab Code: 10145

Case No.: RH803

SAS No.:

SDG No.: 12423

(Added Area)

Matrix: (soil/water) SOIL

Lab Sample ID: 700292 1.0

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3444.D

Level: (low/med) LOW

Date Received: 01/02/04

% Moisture: not dec. 19.9

Date Analyzed: 01/07/04

GC Column: DB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

UG/KG

Q

108-38-3/106-42-3	(m+p)Xylene	12	U
95-47-6	o-Xylene	12	U
100-42-5	Styrene	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D323 06

Lab Name: cas\roch Contract: C004244
Lab Code: 10145 Case No.: RH803 SAS No.: SDG No.: 12423
Matrix: (soil/water) SOIL Lab Sample ID: 700292 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3444.D
Level: (low/med) LOW Date Received: 01/02/04
% Moisture: not dec. 19.9 Date Analyzed: 01/07/04
GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

*West
Side
Bottom
(Added
Area)*

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. *Bottom of Well Screen on North side*
D323 07

Lab Name: cas/roch Contract: C004244
Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
Matrix: (soil/water) SOIL Lab Sample ID: 700293 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3434.D
Level: (low/med) LOW Date Received: 01/02/04
% Moisture: not dec. 22.4 Date Analyzed: 01/07/04
GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	13	U
67-64-1	Acetone	32	
75-35-4	1,1-Dichloroethene	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene chloride	13	U
75-15-0	Carbon disulfide	13	U
1634-04-4	Methyl tert-Butyl Ether	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	4	J
156-59-2	cis-1,2-Dichloroethene	7	J
67-66-3	Chloroform	13	U
110-82-7	Cyclohexane	8	J
107-06-2	1,2-Dichloroethane	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon tetrachloride	13	U
71-43-2	Benzene	13	U
79-01-6	Trichloroethene	25	
108-87-2	Methylcyclohexane	12	J
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
124-48-1	Dibromochloromethane	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 07

*Bottom of
well
Screen
on
North
Side*

Lab Name: casiroch Contract: C004244

Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423

Matrix: (soil/water) SOIL

Lab Sample ID: 700293 1.0

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3434.D

Level: (low/med) LOW

Date Received: 01/02/04

% Moisture: not dec. 22.4

Date Analyzed: 01/07/04

GC Column: DB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-38-3/106-42-3	(m+p)Xylene	13	U
95-47-6	o-Xylene	13	U
100-42-5	Styrene	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D323 07

*Bottom of
Well Screen
on North
Side*

Lab Name: cas\roch Contract: C004244
Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
Matrix: (soil/water) SOIL Lab Sample ID: 700293 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3434.D
Level: (low/med) LOW Date Received: 01/02/04
% Moisture: not dec. 22.4 Date Analyzed: 01/07/04
GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.95	53	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	86	JN
3.	unknown alkane	21.03	38	J
4. 001678-93-9	Cyclohexane, butyl-	21.25	44	JN
5.	unknown hydrocarbon	22.31	76	J
6.	unknown hydrocarbon	22.84	110	J
7.	unknown hydrocarbon	22.97	38	J
8.	unknown hydrocarbon	23.46	70	J
9.	unknown hydrocarbon	23.64	130	J
10. 004292-92-6	Cyclohexane, pentyl-	23.72	75	JN
11.	unknown hydrocarbon	24.06	82	J
12.	unknown hydrocarbon	24.87	38	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	78	JN
14.	unknown hydrocarbon	25.15	68	J
15. 062016-34-6	Octane, 2,3,7-trimethyl-	26.15	83	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D323 08

Lab Name: cas\roch

Contract: C004244

Lab Code: 10145

Case No.: RH803

SAS No.: _____

SDG No.: 12423

Matrix: (soil/water) SOIL

Lab Sample ID: 700294 1.0

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3437.D

Level: (low/med) LOW

Date Received: 01/02/04

% Moisture: not dec. 18

Date Analyzed: 01/07/04

GC Column: DB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	12	U
67-64-1	Acetone	6	J
75-35-4	1,1-Dichloroethene	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene chloride	12	U
75-15-0	Carbon disulfide	12	U
1634-04-4	Methyl tert-Butyl Ether	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
67-66-3	Chloroform	12	U
110-82-7	Cyclohexane	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. GP5
@ 14.14, 5'
Bottom

D323 08

Lab Name: cas/roch Contract: C004244
Lab Code: 10145 Case No.: RH803 SAS No.: _____ SDG No.: 12423
Matrix: (soil/water) SOIL Lab Sample ID: 700294 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3437.D
Level: (low/med) LOW Date Received: 01/02/04
% Moisture: not dec. 18 Date Analyzed: 01/07/04
GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
108-38-3/106-42-3	(m+p)Xylene		12	U
95-47-6	o-Xylene		12	U
100-42-5	Styrene		12	U
98-82-8	Isopropylbenzene		12	U
79-34-5	1,1,2,2-Tetrachloroethane		12	U
541-73-1	1,3-Dichlorobenzene		12	U
106-46-7	1,4-Dichlorobenzene		12	U
95-50-1	1,2-Dichlorobenzene		12	U
96-12-8	1,2-Dibromo-3-chloropropane		12	U
120-82-1	1,2,4-Trichlorobenzene		12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D323 08

Lab Name: cas\roch

Contract: C004244

Lab Code: 10145

Case No.: RH803

SAS No.: _____

SDG No.: 12423

Matrix: (soil/water) SOIL

Lab Sample ID: 700294 1.0

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: B3437.D

Level: (low/med) LOW

Date Received: 01/02/04

% Moisture: not dec. 18

Date Analyzed: 01/07/04

GC Column: DB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume 1 (uL)

Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

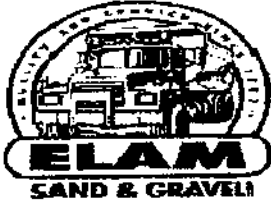
UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Appendix I

Imported Backfill Documentation

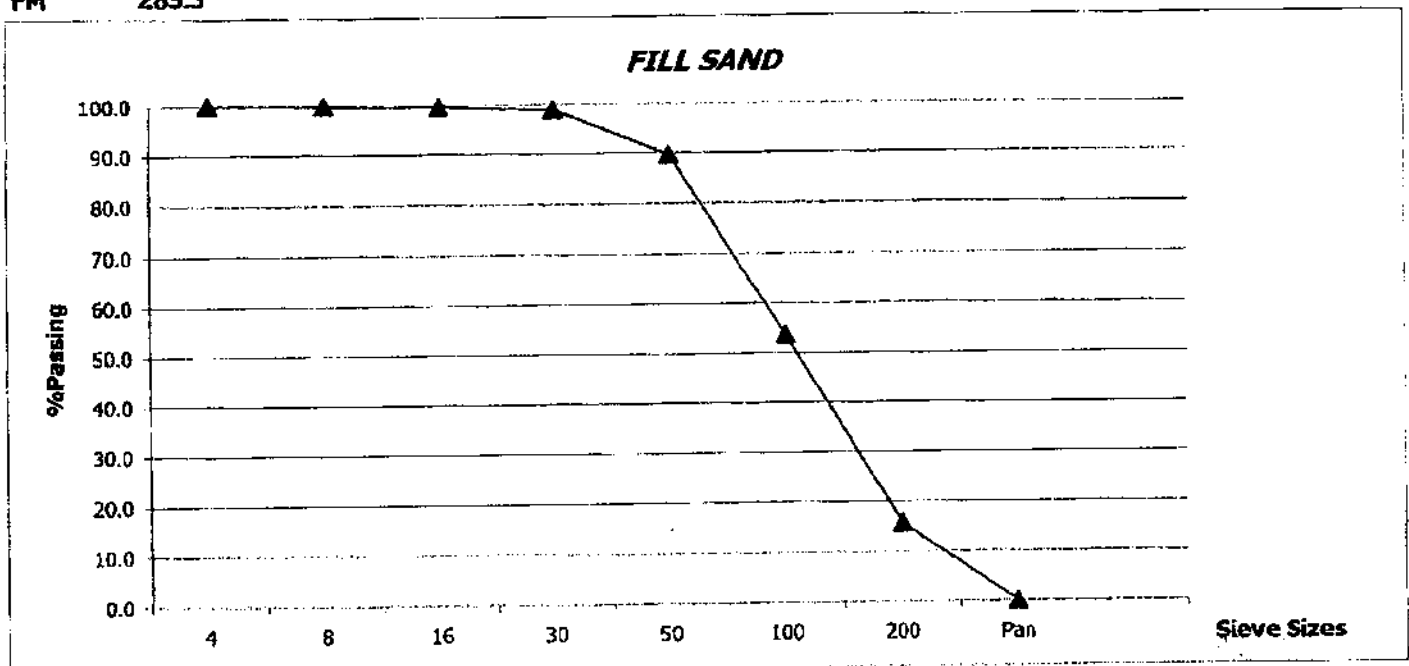


8222 Routes 5 & 20 ♦ PO Box 65
 West Bloomfield, New York 14585
 Phone: (585) 657-8001 ♦ Dispatch: (585) 657-8000
 Fax: (585) 657-6575
 Est. 1892
"Over 100 Years of Quality and Service"

SLC	Material Source Date Sample Location	FILLSAND WEST BLOOMFIELD December 16, 2003 Stockpile

Sieve	Weight Retained	Percent Retained	Percent Passing	NYSDOT Sand Specification	
				Low	High
4	0.0	0.0	100.0		
8	0.9	0.2	99.8		
16	1.1	0.2	99.6		
30	4.0	0.7	98.9		
50	49.6	9.2	89.6		
100	193.1	36.0	53.7		
200	204.3	38.1	15.6		
Pan	83.9	15.6	0.0		
Total	536.9	100.0			

FM 283.3





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Est. 1892

"Over 100 Years of Quality and Service"

March 25, 2004

Mike Storonski
Sear Brown Engineers
85 Metro Park
Rochester, NY 14623

Dear Mike Storonski,

This letter is to verify that the fill material used for the Buell Rd project was a clean fill material. The fill material supplied by SLC/MMH, was a clean fill material taken from an approved NYSDOT gravel source. The approved source number, for the Ionia facility owned by Elam Sand & Gravel Corp., is 4-60G.

If you should need any other information, please feel free to call my office at 585-658-2248. I will be happy to assist in any manner I am capable.

Sincerely,

Todd W. Krenzer
Quality Control Manager
Elam Sand & Gravel Corp.

Appendix M

IRM Groundwater Analytical Summary Report



A FULL SERVICE ENVIRONMENTAL LABORATORY

February 17, 2004

Mr. Peter Smith
Sear-Brown Group
85 Metro Park
Rochester, NY 14623

PROJECT: BUELL #16059
Submission #: R2419875

Dear Mr. Smith

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker
Project Manager

Enc.

cc Ms. Judy Harry
Data Validation
PO Box 208
Cobblecreek Rd.
North Creek, NY 12853



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Sear-Brown Group
Project Reference: BUELL #16059
Lab Submission # : R2419875
Project Manager : Karen Bunker
Reported : 02/17/04

Report Contains a total of 31 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael E. P...*

CASE NARRATIVE

COMPANY: Sear Brown
PROJECT: Buell Automatic #16059
SUBMISSION #: R2419875
SDG#: 702133

Water samples were collected by Sear Brown on 1/13/04 and received at CAS on 1/14/04. Samples were received in good condition, unbroken at a cooler temperature of 5°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers.

VOLATILE ORGANICS

Two (2) water samples and one (1) Trip Blank were analyzed using ASP method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 10 day holding time from VTSR for this method.

Site Specific QC was performed on location RW-1-W (CAS Order # 702133). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were within limits except for Trichloroethene which was low for both the MS and MSD (68% - limits 71-120). Both recoveries were flagged as "N". All Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

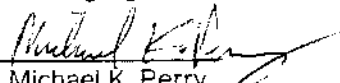
Samples were diluted as appropriate to bring target compounds into the calibration range of the standards. Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. No TIC's were found in these samples.

No Cooler Blank was set up due to a laboratory error. The Trip Blank and Laboratory Method Blanks were free of contamination.

No problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Michael K. Perry
Laboratory Manager

2/16/04
Date

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

[illegible]



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE OF

SR #

CAS Contact

Project Name <u>Buell</u>		Project Number <u>160579</u>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)									
Project Manager <u>Storonsky</u>		Report CC <u>P. Smith</u>		PRESERVATIVE		PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NHOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other							
Company/Address <u>85 Maple</u>		City/State/Zip <u>Rochester 14623</u>		FAX# <u>424-5951</u>		METALS, TOTAL (List in comments below)							
Sampler's Signature <u>Peter Smith</u>		Sampler's Printed Name <u>Peter Smith</u>		SAMPLING DATE <u>1-13-04</u>		SAMPLING TIME <u>11:30</u>		MATRIX <u>W</u>		METALS, DISSOLVED (List in comments below)			
FOR OFFICE USE ONLY		LAB ID		DATE		TIME		MATRIX		METALS, TOTAL (List in comments below)			
CLIENT SAMPLE ID		LAB ID		DATE		TIME		MATRIX		METALS, DISSOLVED (List in comments below)			
34-RW1-W		702133		1-13-04		11:30		W		METALS, DISSOLVED (List in comments below)			
34-RW2-W		702134		1-13-04		11:30		W		METALS, DISSOLVED (List in comments below)			
TRIPS		702135		-		-		W		METALS, DISSOLVED (List in comments below)			
SPECIAL INSTRUCTIONS/COMMENTS Metals		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day ☒ STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE		REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries if C.S. HPLC MS/MS as required III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms + Client Request Enthal ☒ Yes ☒ No		INVOICE INFORMATION FPI# BILL TO		STATION # <u>1875</u> RECEIVED BY					
See OAPP ☐		CUSTODY SEALS: Y N		RECEIVED BY		RELINQUISHED BY		RECEIVED BY					
SAMPLE RECEIPT: CONDITION/COOLER TEMP: <u>50C</u>		Signature <u>Peter Smith</u>		Printed Name <u>Peter Smith</u>		Firm <u>160579</u>		Signature <u>Peter Smith</u>					
RELINQUISHED BY		Signature <u>Peter Smith</u>		Printed Name <u>Peter Smith</u>		Firm <u>160579</u>		Signature <u>Peter Smith</u>					
Date/Time <u>01/14/03 11:15</u>		Signature <u>Peter Smith</u>		Printed Name <u>Peter Smith</u>		Firm <u>160579</u>		Signature <u>Peter Smith</u>					
Date/Time		Signature		Printed Name		Firm		Signature					

#1102

Cooler Receipt And Preservation Check Form

Project/Client S. W. Brown Submission Number R2419875

Cooler received on 11/2/09 by: IRG COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: _____

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 11/2/09

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 11/2/09 by: IRG

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH _____

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				
<u>42</u>				

Other Comments: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-1-W

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3569.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	14	
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	14	
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	7	J
156-59-2	cis-1,2-Dichloroethene	33	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	33	
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	8	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	1	J
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	8	J
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-1-W

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3569.D
Level: (low/med) LOW Date Received: 01/14/04
% Moisture: not dec. Date Analyzed: 01/19/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-2-W

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702134 100.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3568.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 100.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	1000	U
75-01-4	Vinyl chloride	440	J
75-00-3	Chloroethane	1000	U
74-83-9	Bromomethane	1000	U
67-64-1	Acetone	1000	U
75-09-2	Methylene chloride	1000	U
75-15-0	Carbon disulfide	1000	U
78-93-3	2-Butanone	1000	U
156-59-2	cis-1,2-Dichloroethene	15000	
67-66-3	Chloroform	1000	U
107-06-2	1,2-Dichloroethane	1000	U
71-55-6	1,1,1-Trichloroethane	200	J
71-43-2	Benzene	1000	U
79-01-6	Trichloroethene	8100	
75-27-4	Bromodichloromethane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
124-48-1	Dibromochloromethane	1000	U
75-25-2	Bromoform	1000	U
108-10-1	4-Methyl-2-pentanone	1000	U
108-88-3	Toluene	1000	U
591-78-6	2-Hexanone	1000	U
127-18-4	Tetrachloroethene	1000	U
108-90-7	Chlorobenzene	1000	U
100-41-4	Ethylbenzene	1000	U
108-38-3/106-42-3	(m+p)Xylene	1000	U
100-42-5	Styrene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
95-47-6	o-Xylene	1000	U
156-60-5	trans-1,2-Dichloroethene	1000	U
75-35-4	1,1-Dichloroethene	1000	U
75-34-3	1,1-Dichloroethane	120	J
56-23-5	Carbon tetrachloride	1000	U
78-87-5	1,2-Dichloropropane	1000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-2-W

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Matrix: (soil/water) WATER Lab Sample ID: 702134 100.0
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3568.D
 Level: (low/med) LOW Date Received: 01/14/04
 % Moisture: not dec. _____ Date Analyzed: 01/19/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLK

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702135 1.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3579.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		10	U
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide		10	U
78-93-3	2-Butanone		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
124-48-1	Dibromochloromethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
108-38-3/106-42-3	(m+p)Xylene		10	U
100-42-5	Styrene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
95-47-6	o-Xylene		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
78-87-5	1,2-Dichloropropane		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLK

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: 702135 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3579.D
Level: (low/med) LOW Date Received: 01/14/04
% Moisture: not dec. Date Analyzed: 01/20/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VBLK1	98	97	89	0
02	VBLK1MS	107	102	94	0
03	RW-2-W	104	102	94	0
04	RW-1-W	101	103	93	0
05	RW-1-WMS	104	102	95	0
06	RW-1-WMSD	109	103	97	0
07	VBLK2	98	100	90	0
08	VBLK2MS	96	101	90	0
09	TRIP BLK	98	103	92	0

SMC1	=	1,2-Dichloroethane-d4	QC LIMITS (76-114)
SMC2	=	Toluene-d8	(88-110)
SMC3	=	BFB	(86-115)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CASIROCHContract: SEARBLab Code: 10145Case No.: R3-19875

SAS No.: _____

SDG No.: 702133Matrix Spike - EPA Sample No.: VLK1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	51	102	76 - 127
Trichloroethene	50	0.0	51	102	71 - 120
Toluene	50	0.0	51	102	76 - 125
Chlorobenzene	50	0.0	50	100	75 - 130
1,1-Dichloroethene	50	0.0	56	112	61 - 145

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1MS

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: VBLKMS

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3567.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	51		
79-01-6	Trichloroethene	51		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	51		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	50		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	56		
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS\ROCHContract: SEARBLab Code: 10145Case No.: R3-19875

SAS No.: _____

SDG No.: 702133Matrix Spike - EPA Sample No.: VBLK2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	47	94	76 - 127
Trichloroethene	50	0.0	46	92	71 - 120
Toluene	50	0.0	47	94	76 - 125
Chlorobenzene	50	0.0	46	92	75 - 130
1,1-Dichloroethene	50	0.0	48	96	61 - 145

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2MS

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: vblkms

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3578.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		10	U
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide		10	U
78-93-3	2-Butanone		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-88-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		47	
79-01-6	Trichloroethene		46	
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
124-48-1	Dibromochloromethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		47	
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		46	
100-41-4	Ethylbenzene		10	U
108-38-3/106-42-3	(m+p)Xylene		10	U
100-42-5	Styrene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
95-47-6	o-Xylene		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		48	
75-34-3	1,1-Dichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
78-87-5	1,2-Dichloropropane		10	U

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS\ROCHContract: SEARBLab Code: 10145Case No.: R3-19875

SAS No.: _____

SDG No.: 702133Matrix Spike - EPA Sample No.: RW-1-W

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	44	88	76 - 127
Trichloroethene	50	33	67	68 *	71 - 120
Toluene	50	7.8	47	78	76 - 125
Chlorobenzene	50	0.0	42	84	75 - 130
1,1-Dichloroethene	50	0.0	46	92	61 - 145

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Benzene	50	44	88	0	11	76 - 127
Trichloroethene	50	67	68 *	0	14	71 - 120
Toluene	50	48	80	3	13	76 - 125
Chlorobenzene	50	43	86	2	13	75 - 130
1,1-Dichloroethene	50	46	92	0	14	61 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-1-WMS

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0ms

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3570.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	8	J
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	12	
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	6	J
156-59-2	cis-1,2-Dichloroethene	24	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	44	
79-01-6	Trichloroethene	67	
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	47	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	42	
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	46	
75-34-3	1,1-Dichloroethane	5	J
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-1-WMSD

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0msd

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3571.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	8	J	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	12		
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	5	J	
156-59-2	cis-1,2-Dichloroethene	24		
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	44		
79-01-6	Trichloroethene	67		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	48		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	43		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	46		
75-34-3	1,1-Dichloroethane	5	J	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Lab File ID: B3566.D Lab Sample ID: VBLK
 Date Analyzed: 01/19/04 Time Analyzed: 13:12
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK1MS	VBLKMS	B3567.D	14:14
02	RW-2-W	702134 100.0	B3568.D	15:11
03	RW-1-W	702133 1.0	B3569.D	16:20
04	RW-1-WMS	702133 1.0MS	B3570.D	16:55
05	RW-1-WMSD	702133 1.0MSD	B3571.D	17:30

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: VBLK

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3566.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		10	U
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide		10	U
78-93-3	2-Butanone		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
124-48-1	Dibromochloromethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
108-38-3/106-42-3	(m+p)Xylene		10	U
100-42-5	Styrene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
95-47-6	o-Xylene		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
78-87-5	1,2-Dichloropropane		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK1

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: VBK
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3566.D
Level: (low/med) LOW Date Received:
% Moisture: not dec. Date Analyzed: 01/19/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VLBK2

Lab Name: CASI\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Lab File ID: B3577.D Lab Sample ID: vlbk
 Date Analyzed: 01/20/04 Time Analyzed: 12:22
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLBK2MS	VLBKMS	B3578.D	13:21
02	TRIP BLK	702135 1.0	B3579.D	14:09

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: vblk

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3577.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK2

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: vblk
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3577.D
Level: (low/med) LOW Date Received:
% Moisture: not dec. Date Analyzed: 01/20/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Lab File ID: B2449.D BFB Injection Date: 11/04/03
 Instrument ID: MSVOA5 BFB Injection Time: 15:35
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.2
75	30.0 - 66.0% of mass 95	39.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	72.2
175	4.0 - 9.0% of mass 174	5.3 (7.3)1
176	93.0 - 101.0% of mass 174	69.7 (96.5)1
177	5.0 - 9.0% of mass 176	4.6 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1	10PPB	B2451.D	11/04/03	16:46
02	STD2	20PPB	B2452.D	11/04/03	17:21
03	STD3	50PPB	B2453.D	11/04/03	17:57
04	STD4	100PPB	B2454.D	11/04/03	18:33
05	STD5	200PPB	B2455.D	11/04/03	19:08

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
 Lab File ID: B3563.D BFB Injection Date: 01/19/04
 Instrument ID: MSVOA5 BFB Injection Time: 11:25
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	41.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	74.0
175	4.0 - 9.0% of mass 174	5.3 (7.2)1
176	93.0 - 101.0% of mass 174	70.7 (95.5)1
177	5.0 - 9.0% of mass 176	4.4 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	CCV	B3564.D	01/19/04	11:46
02	VBK1	VBK	B3566.D	01/19/04	13:12
03	VBK1MS	VBKMS	B3567.D	01/19/04	14:14
04	RW-2-W	702134 100.0	B3568.D	01/19/04	15:11
05	RW-1-W	702133 1.0	B3569.D	01/19/04	16:20
06	RW-1-WMS	702133 1.0MS	B3570.D	01/19/04	16:55
07	RW-1-WMSD	702133 1.0MSD	B3571.D	01/19/04	17:30

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
 Lab File ID: B3574.D BFB Injection Date: 01/20/04
 Instrument ID: MSVOA5 BFB Injection Time: 10:31
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.7
75	30.0 - 66.0% of mass 95	41.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	72.7
175	4.0 - 9.0% of mass 174	4.9 (6.8)1
176	93.0 - 101.0% of mass 174	70.2 (96.6)1
177	5.0 - 9.0% of mass 176	4.5 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2	CCV	B3575.D	01/20/04	10:51
02	VLK2	VLK	B3577.D	01/20/04	12:22
03	VLK2MS	VLKMS	B3578.D	01/20/04	13:21
04	TRIP BLK	702135 1.0	B3579.D	01/20/04	14:09

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
 Lab File ID (Standard): B3564.D Date Analyzed: 01/19/04
 Instrument ID: MSVOA5 Time Analyzed: 11:46
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR ST	102684	9.50	621200	11.33	612782	16.87
UPPER LIMIT	205368	9.00	1242400	10.83	1225564	16.37
LOWER LIM	51342	10.00	310600	11.83	306391	17.37
EPA SAMPLE NO.						
01 VBLK1	105086	9.51	644197	11.33	617184	16.86
02 VBLK1MS	97872	9.50	618110	11.32	586414	16.86
03 RW-2-W	99999	9.50	601038	11.32	566024	16.85
04 RW-1-W	100065	9.50	590604	11.32	559287	16.85
05 RW-1-WMS	113614	9.49	684210	11.32	656158	16.85
06 RW-1-WMSD	106880	9.50	661702	11.32	630357	16.85

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
 Lab File ID (Standard): B3575.D Date Analyzed: 01/20/04
 Instrument ID: MSVOA5 Time Analyzed: 10:51
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR ST	97405	9.48	588576	11.30	585470	16.82
UPPER LIMIT	194810	8.98	1177152	10.80	1170940	16.32
LOWER LIM	48703	9.98	294288	11.80	292735	17.32
EPA SAMPLE NO.						
01 VBLK2	98340	9.47	613630	11.30	583391	16.82
02 VBLK2MS	99360	9.47	592339	11.30	572190	16.82
03 TRIP BLK	98156	9.47	593797	11.29	561096	16.82

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

Appendix J

Geoprobe® Boring Logs



85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP-2

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contractor:	SLC	Start Date:	12/24/03
Project #:	16059	Driller:	R. Rose	Completion Date:	12/24/03
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	A. Krause

0	SAMPLE				Soil Information Remarks
	PID	Rec.	No.	Depth	
					Concrete
					1.0'
	17		1	1.0-5.0'	Red, CLAY.
5	22				Wet, gray SAND.
	30		2	5.0-9.0'	Gray, clayey fine SAND
	14				Wet, brown, fine SAND.
10					
	10		3	9.0-12.7'	s.a.a.
	3				
					12.7'
					Equipment Refusal at 12.7'
15					
20					

Notes:

1. PID Thermo Env Model 580 B with 11.8 cV lamp.



85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP-5

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contractor:	SLC	Start Date:	12/31/03
Project #:	16059	Driller:	R. Rose	Completion Date:	12/31/03
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	P. Smith

SAMPLE				Soil Information
PID	Rec.	No.	Depth	Remarks
0				0.6'
	18"	1	.6-2.6'	Gray, brown, fine SAND, moist.
0.0				
	36"	2	2.6-6.6'	(FILL)
				- same
5				
193				(Top of Native)
	36"	3	6.6-10.6'	Brown silty fine SAND, wet.
				(NATIVE)
8,000				same, with trace brown product, strong odor (9-9.6 ft.)
10				same, with trace gravel (TILL)
945				10.6'
	24"	4	10.6-12.6'	Brown silty fine SAND, moist.
4.0				
	24"	5	12.6-14.6'	- same
3.0				
15				14.6'
				Boring terminated at 14.6 ft. bgs
20				

Notes:

1. PID Thermo Env Model 580 B with 11.8 eV lamp.



85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP-6

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contractor:	SLC	Start Date:	12/31/03
Project #:	16059	Driller:	R. Rose	Completion Date:	12/31/03
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	P. Smith

0	SAMPLE				Soil Information
	PID	Rec.	No.	Depth	Remarks
		24"	1	0.5-2.5'	Gray, brown, fine SAND, moist.
					(FILL.)
		48"	2	2.5-6.5'	- same
5					- iridescent sheen at 5-6 ft.
					- same except wet @ 6 ft.
	755				- iridescent sheen, trace product 6.5-7.5'
		48"	3	6.5-10.5'	
	2,480				Brown, silty fine SAND, wet.
					(NATIVE)
10	1.7				
	22				
		24"	4	10.5-12.5'	- same
	6.0				
					Boring terminated at 12.5 ft. bgs
15					
20					

Notes:

1. PID Thermo Env Model 580 B with 11.8 eV lamp.



85 Metro Park
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(716) 475-1440

Test Boring No. GP-7

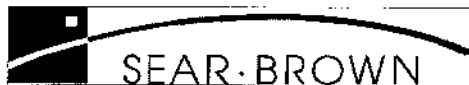
Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contractor:	SLC	Start Date:	12/31/2003
Project #:	16059	Driller:	R. Rose	Completion Date:	12/31/2003
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	P. Smith

0	SAMPLE				Soil Information	
	PID	Rec.	No.	Depth	Remarks	
		24"	1	0.5-2.5'	Gray brown fine SAND, some silt, moist	0.5'
		24"	2	2.5-6.5'	- same	
					- same, except wet at 4.5 ft. (FILL)	
5						
	1.5					
		24"	3	6.5-10.5'	Gray fine SAND, some silt, wet, with trace iridescent sheen.	7.0'
					(NATIVE)	
10	42.2					
	1.7				- same, except brown	
					Boring terminated at 10.5'	10.5'
15						
20						

Notes:

1. PID Thermo Env Model 580 B with 11.8 eV lamp.



85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP-8

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contractor:	SLC	Start Date:	12/31/2003
Project #:	16059	Driller:	R. Rose	Completion Date:	12/31/2003
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	P. Smith

0	SAMPLE				Soil Information Remarks	
	PID	Rec.	No.	Depth		
		12"	1	0.5-2.5'	Gray brown fine SAND, some silt, moist.	0.5'
		24"	2	2.5-6.5'	(FILL)	
5					- same except wet at 5.5 ft.	6.0'
		48"	3	6.5-10.5'	Brown sandy SILT, wet, with dark brown product, iridescent sheen.	
	77				(NATIVE)	
10	22					10.5'
					Boring terminated at 10.5'	
15						
20						

Notes:

1. PID Thermo Env Model 580 B with 11.8 eV lamp.

Appendix K

Geoprobe® Boring Soil Analytical Summary Reports



A FULL SERVICE ENVIRONMENTAL LABORATORY

January 28, 2004

Mr. David Belaskas
Sear-Brown Group
85 Metro Park
Rochester, NY 14623

PROJECT: BUELL #16059 IRM
Submission #: R2319657

Dear Mr. Belaskas

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script that reads 'Karen Bunker'.

Karen Bunker
Project Manager

Enc.

cc Ms. Judy Harry
Data Validation Services
Cobble Creek Rd.
PO Box 208
North Creek, NY 12853



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Sear-Brown Group
Project Reference: BUELL #16059 IRM
Lab Submission # : R2319657
Project Manager : Karen Bunker
Reported : 01/28/04

Report Contains a total of 45 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. L. Reyes

CASE NARRATIVE

COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2319657 SDG#: 698895

Water samples were collected by Sear Brown on 12/24/03 and received at CAS on the same day. All samples were received within hours of sampling unbroken at a cooler temperature of 15°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Six (6) soils and one (1) Trip Blank were analyzed using SW-846 method 8260B for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample. This method was utilized in order to comply with the Rush Turn Around Time required by the client for these samples as per client instruction.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 14 day holding time for the method.

Site Specific QC was performed on location BU-GP1-S3BOTT-S (CAS Order # 698900). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Most locations were initially run at Medium dilutions and reported for the rush TAT requested by the client. Several samples were later repeated at lower dilutions or undiluted, to achieve and report lower detection limits. Both sets of data are included in the package.

Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for this analysis. The up to 20 of the largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. "D" flags indicate an additional dilution was analyzed.

The Trip Blank was free of contamination from Target Compounds and TIC's. All Method Blanks were free from Target Compound contamination.

No problems were encountered during the analysis of these samples.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

[illegible]



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
NELAP Accredited

New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



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An Employee-Owned Company
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 OF 1

CAS Contact

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475

ANALYSIS REQUESTED (Include Method Number and Container Preservative)									
Project Name	Project Number	Report CC	PRESERVATIVE	NUMBER OF CONTAINERS	GC/MS VOAS	GC/MS SVOAS	PESTICIDES	PCBS	METALS TOTAL
BUELL IRM	10057				GC/MS VOAS ☐ 8250 ☐ 8254 ☐ CLP	GC/MS SVOAS ☐ 8270 ☐ 825 ☐ CLP	PESTICIDES ☐ 8021 ☐ 601/602	PCBS ☐ 8081 ☐ 608 ☐ CLP	METALS TOTAL ☐ 8082 ☐ 608 ☐ CLP
Project Manager: NIKIE STORANSKY									
Company/Address: SPAN-BROWN									
85 METRO PARK									
ROCHESTER, NY 14623									
Phone: 585-475-1440	FAX: 585-424-5951								
Sample's Signature: <i>David A. Spencer</i>	Sample's Printed Name: DAVID A. SPENCER								
CLIENT SAMPLE ID	FOR OFFICE USE ONLY	LAB ID	SAMPLING DATE	TIME	MATRIX				
BU-GP3-52 TOP-5	698895		12/24/03	10:52	501L	1			
BU-GP3-51 TOP-5	698896		12/24/03	11:00	501L				
BU-GP3-51 MID-5	698897		12/24/03	11:02	501L				
BU-GP3-51 BOT-5	698898		12/24/03	11:03	501L				
BU-GP3-52 BOT-5	698899		12/24/03	11:10	501L				
BU-GP1-53 BOT-5	698900		12/24/03	10:50	501L				
TRIP BLANK	698906								
REMARKS/ALTERNATE DESCRIPTION									
30 ppm									
250 ppm									
33 ppm									
19 ppm									
13 ppm									
5 ppm									
PRESERVATIVE KEY									
0. NONE									
1. HCL									
2. HNO3									
3. H2SO4									
4. NaOH									
5. Zn Acetate									
6. MeOH									
7. NaHSO4									
8. Other									

SPECIAL INSTRUCTIONS/COMMENTS		TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION	
AS-P CATEGORY B		☒ RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE		☐ I. Results Only ☐ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) ☐ III. Results + QC and Calibration Summaries ☒ IV. Data Validation Report with Raw Data ☐ V. Specialized Forms / Custom Report		PO# BILL TO: SUBMISSION #: R2314657	
See ☐ ☐		CUSTODY SEALS: Y N		RECEIVED BY		RECEIVED BY	
SAMPLE RECEIPT: CONDITION/COOLER TEMP: 15°C		RELINQUISHED BY		RELINQUISHED BY		RELINQUISHED BY	
Signature: <i>David A. Spencer</i>		Signature: _____		Signature: _____		Signature: _____	
Printed Name: DANIEL V. SPENCER		Printed Name: _____		Printed Name: _____		Printed Name: _____	
Firm: SPAN-BROWN		Firm: _____		Firm: _____		Firm: _____	
Date/Time: 12/24/03 1440		Date/Time: _____		Date/Time: _____		Date/Time: _____	

Run as 82600 to meet client Req. TAT

Cooler Receipt And Preservation Check Form

Project/Client Sony Brown Submission Number R2-191057

Cooler received on 12/24/03 by OND COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 5°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 12/24/03 1445

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples Insufficient time from sampling to cool.

Cooler Breakdown: Date: 12/24/03 by: OND

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH _____

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments: _____

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP2-S2TOP-S

Date Sampled : 12/24/03 10:52 Order #: 698895 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 84.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 250.00			Dry Weight
ACETONE	20	5900 U	UG/KG
BENZENE	5.0	1500 U	UG/KG
BROMODICHLOROMETHANE	5.0	1500 U	UG/KG
BROMOFORM	5.0	1500 U	UG/KG
BROMOMETHANE	5.0	1500 U	UG/KG
2-BUTANONE (MEK)	10	3000 U	UG/KG
CARBON DISULFIDE	10	3000 U	UG/KG
CARBON TETRACHLORIDE	5.0	1500 U	UG/KG
CHLOROBENZENE	5.0	1500 U	UG/KG
CHLOROETHANE	5.0	1500 U	UG/KG
CHLOROFORM	5.0	1500 U	UG/KG
CHLOROMETHANE	5.0	1500 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	1500 U	UG/KG
1,1-DICHLOROETHANE	5.0	1500 U	UG/KG
1,2-DICHLOROETHANE	5.0	1500 U	UG/KG
1,1-DICHLOROETHENE	5.0	1500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	1500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	1500 U	UG/KG
1,2-DICHLOROPROPANE	5.0	1500 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	1500 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	1500 U	UG/KG
ETHYLBENZENE	5.0	1500 U	UG/KG
2-HEXANONE	10	3000 U	UG/KG
METHYLENE CHLORIDE	5.0	1500 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	3000 U	UG/KG
STYRENE	5.0	1500 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	1500 U	UG/KG
TETRACHLOROETHENE	5.0	1500 U	UG/KG
TOLUENE	5.0	1500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	1500 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	1500 U	UG/KG
TRICHLOROETHENE	5.0	1500 U	UG/KG
VINYL CHLORIDE	5.0	1500 U	UG/KG
O-XYLENE	5.0	1500 U	UG/KG
M+P-XYLENE	5.0	470 J	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	107	%
TOLUENE-D8	(83 - 117 %)	105	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	103	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP2-S2TOPS

Lab Name: cas/roch Contract: SEARB
 Lab Code: 10145 Case No.: R3-19657 SAS No.: SDG No.: 698895
 Matrix: (soil/water) SOIL Lab Sample ID: 698895 250.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3290.D
 Level: (low/med) MED Date Received:
 % Moisture: not dec. 15.6 Date Analyzed: 12/24/03
 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown aliphatic hydrocarbon	18.05	5300	J
2.	unknown aliphatic hydrocarbon	18.32	4600	J
3. 001678-92-8	Cyclohexane, propyl-	18.62	5400	JN
4.	unknown aliphatic hydrocarbon	18.93	8200	J
5.	unknown c10 aliphatic	19.04	8700	J
6.	unknown cyclic hydrocarbon	20.01	9700	J
7. 002847-72-5	Decane, 4-methyl-	20.61	4400	JN
8. 000095-63-6	Benzene, 1,2,4-trimethyl-	20.81	7500	JN
9. 001678-93-9	Cyclohexane, butyl-	21.30	12000	JN
10. 000105-05-5	Benzene, 1,4-diethyl-	22.24	4900	JN
11. 000493-02-7	Naphthalene, decahydro-, trans-	22.35	7700	JN
12.	unknown cyclic hydrocarbon	22.51	4000	J
13.	unknown aromatic hydrocarbon	22.64	8800	J
14.	unknown hydrocarbon	22.88	11000	J
15. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	23.03	4900	JN
16.	unknown hydrocarbon	23.32	5200	J
17.	unknown hydrocarbon	23.51	6300	J
18.	unknown hydrocarbon	23.67	10000	J
19.	unknown cyclic hydrocarbon	23.76	6300	J
20. 002958-76-1	Naphthalene, decahydro-2-methy	24.12	8300	JN

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP2-S2TOP-S

Date Sampled : 12/24/03 10:52 Order #: 698895 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 84.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 5.00			Dry Weight
ACETONE	20	120 U	UG/KG
BENZENE	5.0	30 U	UG/KG
BROMODICHLOROMETHANE	5.0	30 U	UG/KG
BROMOFORM	5.0	30 U	UG/KG
BROMOMETHANE	5.0	30 U	UG/KG
2-BUTANONE (MEK)	10	13 J	UG/KG
CARBON DISULFIDE	10	59 U	UG/KG
CARBON TETRACHLORIDE	5.0	30 U	UG/KG
CHLOROBENZENE	5.0	30 U	UG/KG
CHLOROETHANE	5.0	11 J	UG/KG
CHLOROFORM	5.0	30 U	UG/KG
CHLOROMETHANE	5.0	30 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	30 U	UG/KG
1,1-DICHLOROETHANE	5.0	30 U	UG/KG
1,2-DICHLOROETHANE	5.0	30 U	UG/KG
1,1-DICHLOROETHENE	5.0	30 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	15 J	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	30 U	UG/KG
1,2-DICHLOROPROPANE	5.0	30 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	30 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	30 U	UG/KG
ETHYLBENZENE	5.0	190	UG/KG
2-HEXANONE	10	59 U	UG/KG
METHYLENE CHLORIDE	5.0	30 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	59 U	UG/KG
STYRENE	5.0	30 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	30 U	UG/KG
TETRACHLOROETHENE	5.0	30 U	UG/KG
TOLUENE	5.0	30 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	30 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	30 U	UG/KG
TRICHLOROETHENE	5.0	20 J	UG/KG
VINYL CHLORIDE	5.0	30 U	UG/KG
O-XYLENE	5.0	46	UG/KG
M+P-XYLENE	5.0	450	UG/KG

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	93	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	100	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP2-S2TOPSDL

Lab Name: CAS-ROC Contract: SEARB
 Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
 Matrix: (soil/water) SOIL Lab Sample ID: 698895 5.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3817.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. 15.6 Date Analyzed: 12/26/03
 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 5.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 002216-30-0	Heptane, 2,5-dimethyl-	14.85	670	JND
2. 001678-91-7	Cyclohexane, ethyl-	15.26	980	JND
3.	Unknown Cyclic Hydrocarbon	15.34	710	JD
4.	Unknown Alkane	15.64	2800	JD
5. 001795-27-3	Cyclohexane, 1,3,5-trimethyl-, (1	15.76	840	JND
6. 002216-33-3	Octane, 3-methyl-	15.89	3200	JND
7.	Unknown Alkane	17.16	2300	JD
8.	Unknown Alkane	17.35	4000	JD
9. 005911-04-6	Nonane, 3-methyl-	17.81	3800	JND
10.	Unknown Hydrocarbon	17.93	2900	JD
11. 001678-92-8	Cyclohexane, propyl-	18.01	3100	JND
12. 017301-94-9	Nonane, 4-methyl-	18.33	20000	JND
13. 005911-04-6	Nonane, 3-methyl-	18.59	4600	JND
14.	Unknown Cyclic Hydrocarbon	19.36	1000	JD
15. 000108-67-8	Benzene, 1,3,5-trimethyl-	19.48	920	JND
16. 002847-72-5	Decane, 4-methyl-	19.89	1100	JND
17. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.27	1700	JND
18. 001678-93-9	Cyclohexane, butyl-	20.69	880	JND
19.	Unknown Hydrocarbon	22.27	660	JD
20.	Unknown Hydrocarbon	23.12	1200	JD

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S1TOP-S

Date Sampled : 12/24/03 11:00 Order #: 698896 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 91.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 625.00			Dry Weight
ACETONE	20	14000 U	UG/KG
BENZENE	5.0	3400 U	UG/KG
BROMODICHLOROMETHANE	5.0	3400 U	UG/KG
BROMOFORM	5.0	3400 U	UG/KG
BROMOMETHANE	5.0	3400 U	UG/KG
2-BUTANONE (MEK)	10	6800 U	UG/KG
CARBON DISULFIDE	10	6800 U	UG/KG
CARBON TETRACHLORIDE	5.0	3400 U	UG/KG
CHLOROBENZENE	5.0	3400 U	UG/KG
CHLOROETHANE	5.0	3400 U	UG/KG
CHLOROFORM	5.0	3400 U	UG/KG
CHLOROMETHANE	5.0	3400 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	3400 U	UG/KG
1,1-DICHLOROETHANE	5.0	880 J	UG/KG
1,2-DICHLOROETHANE	5.0	3400 U	UG/KG
1,1-DICHLOROETHENE	5.0	3400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	67000	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	3400 U	UG/KG
1,2-DICHLOROPROPANE	5.0	3400 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	3400 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	3400 U	UG/KG
ETHYLBENZENE	5.0	3400 U	UG/KG
2-HEXANONE	10	6800 U	UG/KG
METHYLENE CHLORIDE	5.0	3400 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	6800 U	UG/KG
STYRENE	5.0	3400 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	3400 U	UG/KG
TETRACHLOROETHENE	5.0	810 J	UG/KG
TOLUENE	5.0	3400 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	3500	UG/KG
1,1,2-TRICHLOROETHANE	5.0	3400 U	UG/KG
TRICHLOROETHENE	5.0	120000	UG/KG
VINYL CHLORIDE	5.0	3400 U	UG/KG
O-XYLENE	5.0	3400 U	UG/KG
M+P-XYLENE	5.0	3400 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	104	%
TOLUENE-D8	(83 - 117 %)	105	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	102	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP3-S1TOPS

Lab Name: cas/roch Contract: SEARB
 Lab Code: 10145 Case No.: R3-19657 SAS No.: SDG No.: 698895
 Matrix: (soil/water) SOIL Lab Sample ID: 698896 625.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3291.D
 Level: (low/med) MED Date Received:
 % Moisture: not dec. 8.4 Date Analyzed: 12/24/03
 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 11

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown aliphatic	20.00	11000	J
2. 002847-72-5	Decane, 4-methyl-	20.61	3600	JN
3. 001678-93-9	Cyclohexane, butyl-	21.30	7700	JN
4. 000493-02-7	Naphthalene, decahydro-, trans-	22.35	4700	JN
5. 001120-21-4	Undecane	22.44	8800	JN
6.	unknown aromatic hydrocarbon	22.64	5500	J
7.	unknown hydrocarbon	22.88	5900	J
8.	unknown hydrocarbon	23.51	3600	J
9.	unknown hydrocarbon	23.67	6100	J
10.	unknown cyclic hydrocarbon	23.76	4400	J
11. 002958-76-1	Naphthalene, decahydro-2-methy	24.12	5800	JN

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S1MID-S

Date Sampled : 12/24/03 11:02 Order #: 698897 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 86.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	2900 U	UG/KG
BENZENE	5.0	730 U	UG/KG
BROMODICHLOROMETHANE	5.0	730 U	UG/KG
BROMOFORM	5.0	730 U	UG/KG
BROMOMETHANE	5.0	730 U	UG/KG
2-BUTANONE (MEK)	10	1500 U	UG/KG
CARBON DISULFIDE	10	1500 U	UG/KG
CARBON TETRACHLORIDE	5.0	730 U	UG/KG
CHLOROBENZENE	5.0	730 U	UG/KG
CHLOROETHANE	5.0	730 U	UG/KG
CHLOROFORM	5.0	730 U	UG/KG
CHLOROMETHANE	5.0	730 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	730 U	UG/KG
1,1-DICHLOROETHANE	5.0	730 U	UG/KG
1,2-DICHLOROETHANE	5.0	730 U	UG/KG
1,1-DICHLOROETHENE	5.0	730 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4400	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	730 U	UG/KG
1,2-DICHLOROPROPANE	5.0	730 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	730 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	730 U	UG/KG
ETHYLBENZENE	5.0	730 U	UG/KG
2-HEXANONE	10	1500 U	UG/KG
METHYLENE CHLORIDE	5.0	730 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1500 U	UG/KG
STYRENE	5.0	730 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	730 U	UG/KG
TETRACHLOROETHENE	5.0	730 U	UG/KG
TOLUENE	5.0	730 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	340 J	UG/KG
1,1,2-TRICHLOROETHANE	5.0	730 U	UG/KG
TRICHLOROETHENE	5.0	8600	UG/KG
VINYL CHLORIDE	5.0	360 J	UG/KG
O-XYLENE	5.0	730 U	UG/KG
M+P-XYLENE	5.0	730 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	102	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	106	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP3-S1MIDS

Lab Name: cas/roch Contract: SEARB
 Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
 Matrix: (soil/water) SOIL Lab Sample ID: 698897 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3288.D
 Level: (low/med) MED Date Received: _____
 % Moisture: not dec. 13.9 Date Analyzed: 12/24/03
 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001120-21-4	Undecane	22.44	810	JN
2. 000112-40-3	Dodecane	24.69	730	JN

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL

Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S1BOTT-S

Date Sampled : 12/24/03 11:03 Order #: 698898 Sample Matrix: SOIL/SEDIMENT
 Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 77.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	3200 U	UG/KG
BENZENE	5.0	810 U	UG/KG
BROMODICHLOROMETHANE	5.0	810 U	UG/KG
BROMOFORM	5.0	810 U	UG/KG
BROMOMETHANE	5.0	810 U	UG/KG
2-BUTANONE (MEK)	10	1600 U	UG/KG
CARBON DISULFIDE	10	1600 U	UG/KG
CARBON TETRACHLORIDE	5.0	810 U	UG/KG
CHLOROBENZENE	5.0	810 U	UG/KG
CHLOROETHANE	5.0	810 U	UG/KG
CHLOROFORM	5.0	810 U	UG/KG
CHLOROMETHANE	5.0	810 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	810 U	UG/KG
1,1-DICHLOROETHANE	5.0	810 U	UG/KG
1,2-DICHLOROETHANE	5.0	810 U	UG/KG
1,1-DICHLOROETHENE	5.0	810 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	810 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	810 U	UG/KG
1,2-DICHLOROPROPANE	5.0	810 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	810 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	810 U	UG/KG
ETHYLBENZENE	5.0	810 U	UG/KG
2-HEXANONE	10	1600 U	UG/KG
METHYLENE CHLORIDE	5.0	810 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1600 U	UG/KG
STYRENE	5.0	810 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	810 U	UG/KG
TETRACHLOROETHENE	5.0	810 U	UG/KG
TOLUENE	5.0	810 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	810 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	810 U	UG/KG
TRICHLOROETHENE	5.0	810 U	UG/KG
VINYL CHLORIDE	5.0	810 U	UG/KG
O-XYLENE	5.0	810 U	UG/KG
M+P-XYLENE	5.0	810 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	100	%
TOLUENE-D8	(83 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	107	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP3-S1BOTT5

Lab Name: cas/roch Contract: SEARB
Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
Matrix: (soil/water) SOIL Lab Sample ID: 698898 125.0
Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3287.D
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 23 Date Analyzed: 12/24/03
GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL

Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S1BOTT-S

Date Sampled : 12/24/03 11:03 Order #: 698898 Sample Matrix: SOIL/SEDIMENT
 Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 77.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			Dry Weight
ANALYTICAL DILUTION: 1.00			
ACETONE	20	38	UG/KG
BENZENE	5.0	6.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	6.5 U	UG/KG
BROMOFORM	5.0	6.5 U	UG/KG
BROMOMETHANE	5.0	6.5 U	UG/KG
2-BUTANONE (MEK)	10	3.8 J	UG/KG
CARBON DISULFIDE	10	13 U	UG/KG
CARBON TETRACHLORIDE	5.0	6.5 U	UG/KG
CHLOROBENZENE	5.0	6.5 U	UG/KG
CHLOROETHANE	5.0	6.5 U	UG/KG
CHLOROFORM	5.0	6.5 U	UG/KG
CHLOROMETHANE	5.0	6.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	6.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.8	UG/KG
1,2-DICHLOROETHANE	5.0	6.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	6.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	26	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	6.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	6.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	6.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	6.5 U	UG/KG
ETHYLBENZENE	5.0	6.5 U	UG/KG
2-HEXANONE	10	13 U	UG/KG
METHYLENE CHLORIDE	5.0	6.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	13 U	UG/KG
STYRENE	5.0	6.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	6.5 U	UG/KG
TETRACHLOROETHENE	5.0	6.5 U	UG/KG
TOLUENE	5.0	1.4 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	6.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	6.5 U	UG/KG
TRICHLOROETHENE	5.0	21	UG/KG
VINYL CHLORIDE	5.0	17	UG/KG
O-XYLENE	5.0	2.2 J	UG/KG
M+P-XYLENE	5.0	6.5 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

P3-S1BOTTSDL

Lab Name: CAS-ROC Contract: SEARB
 Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
 Matrix: (soil/water) SOIL Lab Sample ID: 698898 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3811.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. 23 Date Analyzed: 12/26/03
 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 5.0 1.0 (BA1/26)
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Hydrocarbon	17.93	33	JD
2. 017301-94-9	Nonane, 4-methyl-	18.33	100	JND
3. 005911-04-6	Nonane, 3-methyl-	18.59	31	JND
4. 002847-72-5	Decane, 4-methyl-	19.88	120	JND
5. 001678-93-9	Cyclohexane, butyl-	20.67	77	JND
6.	Unknown Hydrocarbon	21.80	99	JD
7.	Unknown Alkane	22.15	63	JD
8.	Unknown Hydrocarbon	22.29	54	JD
9.	Unknown Alkane	22.42	88	JD
10.	Unknown Hydrocarbon	22.78	79	JD
11.	Unknown Alkane	22.99	100	JD
12.	Unknown Hydrocarbon	23.13	180	JD
13.	Unknown Hydrocarbon	23.58	69	JD
14.	Unknown Hydrocarbon	24.21	39	JD
15. 006044-71-9	Dodecane, 6-methyl-	24.31	210	JND
16.	Unknown Hydrocarbon	24.62	38	JD
17.	Unknown Hydrocarbon	24.96	42	JD
18.	Unknown Cyclic Alkane	25.55	98	JD
19.	Unknown Alkane	25.68	120	JD
20.	Unknown Alkane	28.39	38	JD

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S2BOTTs

Date Sampled : 12/24/03 11:10 Order #: 698899 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 85.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	2900 U	UG/KG
BENZENE	5.0	730 U	UG/KG
BROMODICHLOROMETHANE	5.0	730 U	UG/KG
BROMOFORM	5.0	730 U	UG/KG
BROMOMETHANE	5.0	730 U	UG/KG
2-BUTANONE (MEK)	10	1500 U	UG/KG
CARBON DISULFIDE	10	1500 U	UG/KG
CARBON TETRACHLORIDE	5.0	730 U	UG/KG
CHLOROBENZENE	5.0	730 U	UG/KG
CHLOROETHANE	5.0	730 U	UG/KG
CHLOROFORM	5.0	730 U	UG/KG
CHLOROMETHANE	5.0	730 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	730 U	UG/KG
1,1-DICHLOROETHANE	5.0	730 U	UG/KG
1,2-DICHLOROETHANE	5.0	730 U	UG/KG
1,1-DICHLOROETHENE	5.0	730 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	730 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	730 U	UG/KG
1,2-DICHLOROPROPANE	5.0	730 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	730 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	730 U	UG/KG
ETHYLBENZENE	5.0	730 U	UG/KG
2-HEXANONE	10	1500 U	UG/KG
METHYLENE CHLORIDE	5.0	730 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1500 U	UG/KG
STYRENE	5.0	730 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	730 U	UG/KG
TETRACHLOROETHENE	5.0	730 U	UG/KG
TOLUENE	5.0	730 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	730 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	730 U	UG/KG
TRICHLOROETHENE	5.0	730 U	UG/KG
VINYL CHLORIDE	5.0	730 U	UG/KG
O-XYLENE	5.0	730 U	UG/KG
M+P-XYLENE	5.0	730 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	103	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	106	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP3-S2BOTTs

Lab Name: cas/roch Contract: SEARB
 Lab Code: 10145 Case No.: R3-19657 SAS No.: SDG No.: 698895
 Matrix: (soil/water) SOIL Lab Sample ID: 698899 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3289.D
 Level: (low/med) MED Date Received:
 % Moisture: not dec. 14.5 Date Analyzed: 12/24/03
 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 14

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown aliphatic hydrocarbon	20.01	2500	J
2. 002847-72-5	Decane, 4-methyl-	20.61	1100	JN
3. 001678-93-9	Cyclohexane, butyl-	21.30	1100	JN
4. 000493-02-7	Naphthalene, decahydro-, trans-	22.35	1700	JN
5. 001120-21-4	Undecane	22.44	1600	JN
6.	unknown cyclic hydrocarbon	22.52	1000	J
7.	unknown aromatic hydrocarbon	22.65	2000	J
8.	unknown aliphatic hydrocarbon	22.89	1900	J
9. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	23.03	800	JN
10.	unknown hydrocarbon	23.32	940	J
11.	unknown hydrocarbon	23.68	1800	J
12.	unknown cyclic hydrocarbon	23.76	1500	J
13. 002958-76-1	Naphthalene, decahydro-2-methy	24.11	1700	JN
14.	unknown cyclic hydrocarbon	26.25	970	J

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP3-S2BOTTS

Date Sampled : 12/24/03 11:10 Order #: 698899 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 85.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 5.00			Dry Weight
ACETONE	20	29 J	UG/KG
BENZENE	5.0	29 U	UG/KG
BROMODICHLOROMETHANE	5.0	29 U	UG/KG
BROMOFORM	5.0	29 U	UG/KG
BROMOMETHANE	5.0	29 U	UG/KG
2-BUTANONE (MEK)	10	58 U	UG/KG
CARBON DISULFIDE	10	58 U	UG/KG
CARBON TETRACHLORIDE	5.0	29 U	UG/KG
CHLOROBENZENE	5.0	29 U	UG/KG
CHLOROETHANE	5.0	29 U	UG/KG
CHLOROFORM	5.0	29 U	UG/KG
CHLOROMETHANE	5.0	29 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	29 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.5 J	UG/KG
1,2-DICHLOROETHANE	5.0	29 U	UG/KG
1,1-DICHLOROETHENE	5.0	29 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	29 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	29 U	UG/KG
1,2-DICHLOROPROPANE	5.0	29 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	29 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	29 U	UG/KG
ETHYLBENZENE	5.0	20 J	UG/KG
2-HEXANONE	10	58 U	UG/KG
METHYLENE CHLORIDE	5.0	29 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	58 U	UG/KG
STYRENE	5.0	29 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	29 U	UG/KG
TETRACHLOROETHENE	5.0	29 U	UG/KG
TOLUENE	5.0	29 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	29 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	29 U	UG/KG
TRICHLOROETHENE	5.0	8.0 J	UG/KG
VINYL CHLORIDE	5.0	29 U	UG/KG
O-XYLENE	5.0	22 J	UG/KG
M+P-XYLENE	5.0	21 J	UG/KG

SURROGATE RECOVERIES	QC LIMITS
4-BROMOFLUOROBENZENE	(68 - 128 %)
TOLUENE-D8	(83 - 117 %)
DIBROMOFLUOROMETHANE	(72 - 123 %)

99 %
100 %
94 %

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

P3-S2BOTTSDL

Lab Name: CAS-ROC Contract: SEARB

Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895

Matrix: (soil/water) SOIL Lab Sample ID: 698899 5.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3810.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 14.5 Date Analyzed: 12/26/03

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 5.0

Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 20

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Alkane	15.65	390	JD
2. 002216-33-3	Octane, 3-methyl-	15.89	370	JND
3.	Unknown Hydrocarbon	17.81	420	JD
4.	Unknown Hydrocarbon	17.93	440	JD
5. 017301-94-9	Nonane, 4-methyl-	18.33	2600	JND
6. 015869-94-0	Octane, 3,6-dimethyl-	18.59	760	JND
7. 002847-72-5	Decane, 4-methyl-	19.89	600	JND
8. 001678-93-9	Cyclohexane, butyl-	20.68	440	JND
9. 013151-35-4	Decane, 5-methyl-	20.73	450	JND
10. 001120-21-4	Undecane	21.72	680	JND
11.	Unknown Hydrocarbon	22.14	470	JD
12.	Unknown Hydrocarbon	22.30	470	JD
13.	Unknown Alkane	22.42	540	JD
14.	Unknown Hydrocarbon	22.77	390	JD
15.	Unknown Alkane	23.00	650	JD
16.	Unknown Hydrocarbon	23.12	1300	JD
17.	Unknown Hydrocarbon	23.58	400	JD
18. 017301-23-4	Undecane, 2,6-dimethyl-	24.31	850	JND
19.	Unknown Hydrocarbon	25.56	650	JD
20. 054105-67-8	Heptadecane, 2,6-dimethyl-	25.69	450	JND

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP1-S3BOTT-S

Date Sampled : 12/24/03 10:50 Order #: 698900 Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 84.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	6.3 J	UG/KG
BENZENE	5.0	5.9 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.9 U	UG/KG
BROMOFORM	5.0	5.9 U	UG/KG
BROMOMETHANE	5.0	5.9 U	UG/KG
2-BUTANONE (MEK)	10	1.2 J	UG/KG
CARBON DISULFIDE	10	12 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.9 U	UG/KG
CHLOROBENZENE	5.0	5.9 U	UG/KG
CHLOROETHANE	5.0	5.9 U	UG/KG
CHLOROFORM	5.0	5.9 U	UG/KG
CHLOROMETHANE	5.0	5.9 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.9 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.9 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
ETHYLBENZENE	5.0	5.9 U	UG/KG
2-HEXANONE	10	12 U	UG/KG
METHYLENE CHLORIDE	5.0	5.9 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG
STYRENE	5.0	5.9 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.9 U	UG/KG
TETRACHLOROETHENE	5.0	5.9 U	UG/KG
TOLUENE	5.0	5.9 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.9 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.9 U	UG/KG
TRICHLOROETHENE	5.0	5.9 U	UG/KG
VINYL CHLORIDE	5.0	5.9 U	UG/KG
O-XYLENE	5.0	5.9 U	UG/KG
M+P-XYLENE	5.0	5.9 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	92	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	95	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP1-S3BOTTs

Lab Name: CAS-ROC Contract: SEARB
 Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
 Matrix: (soil/water) SOIL Lab Sample ID: 698900 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3812.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. 15.9 Date Analyzed: 12/26/03
 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM

Client Sample ID : BU-GP1-S3BOTT-S

Date Sampled : 12/24/03 10:50 Order #: 698900 Sample Matrix: SOIL/SEDIMENT
 Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 84.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	3000 U	UG/KG
BENZENE	5.0	740 U	UG/KG
BROMODICHLOROMETHANE	5.0	740 U	UG/KG
BROMOFORM	5.0	740 U	UG/KG
BROMOMETHANE	5.0	740 U	UG/KG
2-BUTANONE (MEK)	10	1500 U	UG/KG
CARBON DISULFIDE	10	1500 U	UG/KG
CARBON TETRACHLORIDE	5.0	740 U	UG/KG
CHLOROBENZENE	5.0	740 U	UG/KG
CHLOROETHANE	5.0	740 U	UG/KG
CHLOROFORM	5.0	740 U	UG/KG
CHLOROMETHANE	5.0	740 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	740 U	UG/KG
1,1-DICHLOROETHANE	5.0	740 U	UG/KG
1,2-DICHLOROETHANE	5.0	740 U	UG/KG
1,1-DICHLOROETHENE	5.0	740 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	740 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	740 U	UG/KG
1,2-DICHLOROPROPANE	5.0	740 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	740 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	740 U	UG/KG
ETHYLBENZENE	5.0	740 U	UG/KG
2-HEXANONE	10	1500 U	UG/KG
METHYLENE CHLORIDE	5.0	740 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1500 U	UG/KG
STYRENE	5.0	740 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	740 U	UG/KG
TETRACHLOROETHENE	5.0	740 U	UG/KG
TOLUENE	5.0	740 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	740 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	740 U	UG/KG
TRICHLOROETHENE	5.0	740 U	UG/KG
VINYL CHLORIDE	5.0	740 U	UG/KG
O-XYLENE	5.0	740 U	UG/KG
M+P-XYLENE	5.0	740 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	106	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

P1-S3BOTTSD

Lab Name: cas/roch Contract: SEARB
Lab Code: 10145 Case No.: R3-19657 SAS No.: SDG No.: 698895
Matrix: (soil/water) SOIL Lab Sample ID: 698900 125.0
Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3286.D
Level: (low/med) MED Date Received:
% Moisture: not dec. 15.9 Date Analyzed: 12/24/03
GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/03/04

Sear-Brown Group
Project Reference: BUELL IRM
Client Sample ID : TRIP BLANK

Date Sampled : 12/24/03 Order #: 698906 Sample Matrix: WATER
Date Received: 12/24/03 Submission #: R2319657 Analytical Run 99165

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(83 - 118 %)	98	%
TOLUENE-D8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	111	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLK

Lab Name: cas/roch Contract: SEARB
Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
Matrix: (soil/water) WATER Lab Sample ID: 698906 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3311.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/26/03
GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 01/28/04

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 698972 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 125.00			Dry Weight
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	104	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MED BLK1

Lab Name: cas/roch Contract: SEARB
Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
Matrix: (soil/water) SOIL Lab Sample ID: MED BLK
Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3285.D
Level: (low/med) MED Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 12/24/03
GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 01/28/04

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 701645	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 99165

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(83 - 118 %)	103	%
TOLUENE-D8	(88 - 124 %)	103	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	103	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WAT BLK1

Lab Name: cas/roch Contract: SEARB
Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
Matrix: (soil/water) WATER Lab Sample ID: MET BLK
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3298.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/26/03
GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 01/28/04

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 704245 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	%

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL BLK

Lab Name: CAS-ROC Contract: SEARB
Lab Code: 10145 Case No.: R3-19657 SAS No.: _____ SDG No.: 698895
Matrix: (soil/water) SOIL Lab Sample ID: METHOD BLK.
Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3809.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 12/26/03
GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 698900 Sear-Brown Group

Client ID: BU-GP1-S3BOTT-S

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 99165

Percent Solid : 84.1

ANALYTE	SPIKE		MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS	
	ADDED	CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
		SAMPLE								
BENZENE	59.5	0	61.8	104	63.0	106	2	30	50 - 123	
CHLOROBENZENE	59.5	0	58.3	98	63.0	106	8	30	38 - 129	
1,1-DICHLOROETHENE	59.5	0	66.6	112	67.8	114	2	30	43 - 123	
TOLUENE	59.5	0	61.8	104	66.6	112	7	30	44 - 125	
TRICHLOROETHENE	59.5	0	61.8	104	61.8	104	0	30	44 - 127	

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B TCLLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 698973

ANALYTICAL RUN #: 99165

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	104	50 - 150
BENZENE	20.0	98	70 - 130
BROMODICHLOROMETHANE	20.0	106	70 - 130
BROMOFORM	20.0	99	70 - 130
BROMOMETHANE	20.0	87	50 - 150
2-BUTANONE (MEK)	20.0	97	50 - 150
CARBON DISULFIDE	20.0	106	70 - 130
CARBON TETRACHLORIDE	20.0	104	70 - 130
CHLOROBENZENE	20.0	94	70 - 130
CHLOROETHANE	20.0	98	70 - 130
CHLOROFORM	20.0	101	70 - 130
CHLOROMETHANE	20.0	94	70 - 130
DIBROMOCHLOROMETHANE	20.0	103	70 - 130
1,1-DICHLOROETHANE	20.0	97	70 - 130
1,2-DICHLOROETHANE	20.0	108	70 - 130
1,1-DICHLOROETHENE	20.0	95	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	99	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	92	70 - 130
1,2-DICHLOROPROPANE	20.0	96	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	97	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	99	70 - 130
ETHYLBENZENE	20.0	96	70 - 130
2-HEXANONE	20.0	101	70 - 130
METHYLENE CHLORIDE	20.0	101	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	104	70 - 130
STYRENE	20.0	92	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	98	70 - 130
TETRACHLOROETHENE	20.0	97	70 - 130
TOLUENE	20.0	94	70 - 130
1,1,1-TRICHLOROETHANE	20.0	92	70 - 130
1,1,2-TRICHLOROETHANE	20.0	99	70 - 130
TRICHLOROETHENE	20.0	98	70 - 130
VINYL CHLORIDE	20.0	93	70 - 130
O-XYLENE	20.0	95	70 - 130
M+P-XYLENE	40.0	94	70 - 130

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B TCLLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 701646

ANALYTICAL RUN #: 99165

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	92	50 - 150
BENZENE	20.0	107	70 - 130
BROMODICHLOROMETHANE	20.0	110	70 - 130
BROMOFORM	20.0	102	70 - 130
BROMOMETHANE	20.0	95	50 - 150
2-BUTANONE (MEK)	20.0	85	50 - 150
CARBON DISULFIDE	20.0	91	70 - 130
CARBON TETRACHLORIDE	20.0	110	70 - 130
CHLOROBENZENE	20.0	103	70 - 130
CHLOROETHANE	20.0	103	70 - 130
CHLOROFORM	20.0	106	70 - 130
CHLOROMETHANE	20.0	99	70 - 130
DIBROMOCHLOROMETHANE	20.0	103	70 - 130
1,1-DICHLOROETHANE	20.0	104	70 - 130
1,2-DICHLOROETHANE	20.0	109	70 - 130
1,1-DICHLOROETHENE	20.0	105	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	110	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	101	70 - 130
1,2-DICHLOROPROPANE	20.0	105	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	105	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	105	70 - 130
ETHYLBENZENE	20.0	107	70 - 130
2-HEXANONE	20.0	90	70 - 130
METHYLENE CHLORIDE	20.0	107	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	92	70 - 130
STYRENE	20.0	102	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	101	70 - 130
TETRACHLOROETHENE	20.0	109	70 - 130
TOLUENE	20.0	108	70 - 130
1,1,1-TRICHLOROETHANE	20.0	102	70 - 130
1,1,2-TRICHLOROETHANE	20.0	106	70 - 130
TRICHLOROETHENE	20.0	109	70 - 130
VINYL CHLORIDE	20.0	98	70 - 130
O-XYLENE	20.0	107	70 - 130
M+P-XYLENE	40.0	108	70 - 130

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B TCLLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 704246 ANALYTICAL RUN #: 99165

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 12/26/2003			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	139	50 - 150
BENZENE	20.0	103	70 - 130
BROMODICHLOROMETHANE	20.0	103	70 - 130
BROMOFORM	20.0	103	70 - 130
BROMOMETHANE	20.0	108	50 - 150
2-BUTANONE (MEK)	20.0	118	50 - 150
CARBON DISULFIDE	20.0	101	70 - 130
CARBON TETRACHLORIDE	20.0	100	70 - 130
CHLOROBENZENE	20.0	105	70 - 130
CHLOROETHANE	20.0	99	70 - 130
CHLOROFORM	20.0	98	70 - 130
CHLOROMETHANE	20.0	98	70 - 130
DIBROMOCHLOROMETHANE	20.0	102	70 - 130
1,1-DICHLOROETHANE	20.0	99	70 - 130
1,2-DICHLOROETHANE	20.0	100	70 - 130
1,1-DICHLOROETHENE	20.0	105	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	101	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	97	70 - 130
1,2-DICHLOROPROPANE	20.0	97	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	98	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	103	70 - 130
ETHYLBENZENE	20.0	108	70 - 130
2-HEXANONE	20.0	120	70 - 130
METHYLENE CHLORIDE	20.0	99	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	119	70 - 130
STYRENE	20.0	100	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	108	70 - 130
TETRACHLOROETHENE	20.0	107	70 - 130
TOLUENE	20.0	106	70 - 130
1,1,1-TRICHLOROETHANE	20.0	96	70 - 130
1,1,2-TRICHLOROETHANE	20.0	104	70 - 130
TRICHLOROETHENE	20.0	96	70 - 130
VINYL CHLORIDE	20.0	89	70 - 130
O-XYLENE	20.0	108	70 - 130
M+P-XYLENE	40.0	109	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 01/28/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-GP2-S2TOP-S

Date Sampled : 12/24/03 10:52	Order #: 698895	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319657	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	84.4	%	12/30/03	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 01/28/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-GP3-S1TOP-S

Date Sampled : 12/24/03 11:00	Order #: 698896	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319657	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	91.6	%	12/30/03	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 01/28/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-GP3-S1MID-S

Date Sampled : 12/24/03 11:02	Order #: 698897	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319657	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	86.1	%	12/30/03	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 01/28/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-GP3-S1BOTT-S

Date Sampled : 12/24/03 11:03	Order #: 698898	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319657	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	77.0	%	12/30/03	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 01/28/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-GP3-S2BOTTs

Date Sampled : 12/24/03 11:10	Order #: 698899	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319657	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	85.5	%	12/30/03	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 01/28/04

Sear-Brown Group
Project Reference: BUELL #16059 IRM
Client Sample ID : BU-GP1-S3BOTT-S

Date Sampled : 12/24/03 10:50	Order #: 698900	Sample Matrix: SOIL/SEDIMENT
Date Received: 12/24/03	Submission #: R2319657	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	84.1	%	12/30/03	14:00	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

February 5, 2004

Mr. David Belaskas
Sear-Brown Group
85 Metro Park
Rochester, NY 14623

PROJECT:BUELL #16059
Submission #:R2419774

Dear Mr. Belaskas

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script that reads 'Karen Bunker'.

Karen Bunker
Project Manager

Enc.

cc Ms. Judy Harry
Data Validation Services
P.O. Box 208
Cobblecreek Road
North Creek, NY 12853



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Sear-Brown Group
Project Reference: BUELL #16059
Lab Submission # : R2419774
Project Manager : Karen Bunker
Reported : 02/05/04

Report Contains a total of 62 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. L. Ruyjs

CASE NARRATIVE

COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2319774
SDG#: 700222

Water samples were collected by Sear Brown on 12/31/03 and received at CAS on 1/2/04. Samples were received in good condition, unbroken at a cooler temperature of 0°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Five (5) soils were analyzed using ASP method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 10 day holding time from VTSR for this method.

Site Specific QC was performed on location BU-GP5-12-12.6'-S (CAS Order # 700225). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Samples were diluted as appropriate to bring target compounds into the calibration range of the standards. Hits outside the range are flagged as "E", estimated. These samples are then reanalyzed at the proper dilution for the overrange compound. Both sets of data are included in the report. Additional sample dilutions are reported with the suffix "DL" and hits for the second dilution are flagged as "D".

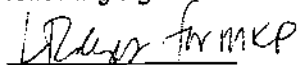
Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

The Cooler Blank set up for the period 12/29/03-1/15/04 was free from contamination. Cooler Blank samples are required as per ASP Protocol.

No problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Michael K. Perry
Laboratory Manager


Date



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
NELAP Accredited

New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

Cooler Receipt And Preservation Check Form

Project/Client Seor Braun Submission Number R2419774

Cooler received on 1/2/04 by: YMC COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 0°C

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 1/2/04 12:10

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 1/5/04 by: BL

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-5 9-9.5

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: 700222 2500

Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3362.D

Level: (low/med) MED Date Received: 01/02/04

% Moisture: not dec. 11.4 Date Analyzed: 01/09/04

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0 ~~2500~~

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	28000	U	
75-01-4	Vinyl chloride	28000	U	
74-83-9	Bromomethane	28000	U	
75-00-3	Chloroethane	28000	U	
75-35-4	1,1-Dichloroethene	28000	U	
67-64-1	Acetone	28000	U	
75-15-0	Carbon disulfide	28000	U	
75-09-2	Methylene chloride	28000	U	
156-60-5	trans-1,2-Dichloroethene	28000	U	
75-34-3	1,1-Dichloroethane	28000	U	
156-59-2	cis-1,2-Dichloroethene	28000	U	
78-93-3	2-Butanone	28000	U	
67-66-3	Chloroform	28000	U	
107-06-2	1,2-Dichloroethane	28000	U	
71-55-6	1,1,1-Trichloroethane	3800	J	
56-23-5	Carbon tetrachloride	28000	U	
71-43-2	Benzene	28000	U	
79-01-6	Trichloroethene	350000		
78-87-5	1,2-Dichloropropane	28000	U	
75-27-4	Bromodichloromethane	28000	U	
10061-01-5	cis-1,3-Dichloropropene	28000	U	
10061-02-6	trans-1,3-Dichloropropene	28000	U	
79-00-5	1,1,2-Trichloroethane	28000	U	
124-48-1	Dibromochloromethane	28000	U	
75-25-2	Bromoform	28000	U	
108-10-1	4-Methyl-2-pentanone	28000	U	
108-88-3	Toluene	28000	U	
127-18-4	Tetrachloroethene	28000	U	
591-78-6	2-Hexanone	28000	U	
108-90-7	Chlorobenzene	28000	U	
100-41-4	Ethylbenzene	28000	U	
108-38-3/106-42-3	(m+p) Xylene	28000	U	
95-47-6	o-Xylene	28000	U	
100-42-5	Styrene	28000	U	
79-34-5	1,1,2,2-Tetrachloroethane	28000	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-5 9-9.5

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R4-19774 SAS No.: SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700222 2500
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3362.D
 Level: (low/med) MED Date Received: 01/02/04
 % Moisture: not dec. 11.4 Date Analyzed: 01/09/04
 GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 182500
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001120-21-4	Undecane	12.90	25000	JN
2. 000112-40-3	Dodecane	13.57	24000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-5 12-12.6

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: 700225 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3419.D

Level: (low/med) LOW Date Received: 01/02/04

% Moisture: not dec. 18.3 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U	U
75-01-4	Vinyl chloride	12	U	U
75-00-3	Chloroethane	12	U	U
74-83-9	Bromomethane	12	U	U
67-64-1	Acetone	6	J	J
75-09-2	Methylene chloride	1	J	J
75-15-0	Carbon disulfide	12	U	U
78-93-3	2-Butanone	12	U	U
156-59-2	cis-1,2-Dichloroethene	9	J	J
67-66-3	Chloroform	12	U	U
107-06-2	1,2-Dichloroethane	12	U	U
71-55-6	1,1,1-Trichloroethane	12	U	U
71-43-2	Benzene	12	U	U
79-01-6	Trichloroethene	32		
75-27-4	Bromodichloromethane	12	U	U
10061-01-5	cis-1,3-Dichloropropene	12	U	U
10061-02-6	trans-1,3-Dichloropropene	12	U	U
79-00-5	1,1,2-Trichloroethane	12	U	U
124-48-1	Dibromochloromethane	12	U	U
75-25-2	Bromoform	12	U	U
108-10-1	4-Methyl-2-pentanone	12	U	U
108-88-3	Toluene	12	U	U
591-78-6	2-Hexanone	12	U	U
127-18-4	Tetrachloroethene	12	U	U
108-90-7	Chlorobenzene	12	U	U
100-41-4	Ethylbenzene	12	U	U
108-38-3/106-42-3	(m+p)Xylene	12	U	U
100-42-5	Styrene	12	U	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U	U
95-47-6	o-Xylene	12	U	U
156-60-5	trans-1,2-Dichloroethene	12	U	U
75-35-4	1,1-Dichloroethene	12	U	U
75-34-3	1,1-Dichloroethane	12	U	U
56-23-5	Carbon tetrachloride	12	U	U
78-87-5	1,2-Dichloropropane	12	U	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-5 12-12.6

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700225 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3419.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 18.3 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	26.16	9	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-6 10-10.5

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700226 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3420.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 18.7 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
74-83-9	Bromomethane	12	U
67-64-1	Acetone	5	J
75-09-2	Methylene chloride	2	J
75-15-0	Carbon disulfide	12	U
78-93-3	2-Butanone	12	U
156-59-2	cis-1,2-Dichloroethene	7	J
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	12	J
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
108-38-3/106-42-3	(m+p)Xylene	12	U
100-42-5	Styrene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
95-47-6	o-Xylene	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
78-87-5	1,2-Dichloropropane	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-6 10-10.5

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
Matrix: (soil/water) SOIL Lab Sample ID: 700226 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3420.D
Level: (low/med) LOW Date Received: 01/02/04
% Moisture: not dec. 18.7 Date Analyzed: 01/06/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-8 7.5-85

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: _____ SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700227 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3459.D
 Level: (low/med) MED Date Received: 01/02/04
 % Moisture: not dec. 18.8 Date Analyzed: 01/08/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500		U
75-01-4	Vinyl chloride	1500		U
75-00-3	Chloroethane	1500		U
74-83-9	Bromomethane	1500		U
67-64-1	Acetone	1500		U
75-09-2	Methylene chloride	1500		U
75-15-0	Carbon disulfide	1500		U
78-93-3	2-Butanone	1500		U
156-59-2	cis-1,2-Dichloroethene	1600		
67-66-3	Chloroform	1500		U
107-06-2	1,2-Dichloroethane	1500		U
71-55-6	1,1,1-Trichloroethane	4100		
71-43-2	Benzene	1500		U
79-01-6	Trichloroethene	260000		E
75-27-4	Bromodichloromethane	1500		U
10061-01-5	cis-1,3-Dichloropropene	1500		U
10061-02-6	trans-1,3-Dichloropropene	1500		U
79-00-5	1,1,2-Trichloroethane	1500		U
124-48-1	Dibromochloromethane	1500		U
75-25-2	Bromoform	1500		U
108-10-1	4-Methyl-2-pentanone	1500		U
108-88-3	Toluene	270		J
591-78-6	2-Hexanone	1500		U
127-18-4	Tetrachloroethene	2000		
108-90-7	Chlorobenzene	1500		U
100-41-4	Ethylbenzene	1500		U
108-38-3/106-42-3	(m+p)Xylene	160		J
100-42-5	Styrene	1500		U
79-34-5	1,1,2,2-Tetrachloroethane	1500		U
95-47-6	o-Xylene	1500		U
156-60-5	trans-1,2-Dichloroethene	1500		U
75-35-4	1,1-Dichloroethene	1500		U
75-34-3	1,1-Dichloroethane	1500		U
56-23-5	Carbon tetrachloride	1500		U
78-87-5	1,2-Dichloropropane	1500		U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-8 7.5-8S

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700227 125.0
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3459.D
 Level: (low/med) MED Date Received: 01/02/04
 % Moisture: not dec. 18.8 Date Analyzed: 01/08/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10125.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.95	9400	JN
2. 002847-72-5	Decane, 4-methyl-	20.55	2200	JN
3. 006975-98-0	Decane, 2-methyl-	21.55	1800	JN
4. 013151-34-3	Decane, 3-methyl-	21.74	1900	JN
5. 001120-21-4	Undecane	22.39	15000	JN
6.	unknown hydrocarbon	22.59	3100	J
7.	unknown hydrocarbon	22.83	3500	J
8.	unknown hydrocarbon	23.45	2100	J
9.	unknown hydrocarbon	23.63	2900	J
10. 004292-92-6	Cyclohexane, pentyl-	23.69	1900	JN
11.	unknown hydrocarbon	24.05	3000	J
12. 000112-40-3	Dodecane	24.63	5300	JN
13. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.81	2500	JN
14.	unknown hydrocarbon	26.16	1900	J
15. 000629-50-5	Tridecane	26.61	2200	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-8 7.5-8DL

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: 700227 2500

Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3368.D

Level: (low/med) MED Date Received: 1/2/04

% Moisture: not dec. 18.8 Date Analyzed: 1/9/04

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: ~~20.0~~ 2560

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		31000	U
75-01-4	Vinyl chloride		31000	U
74-83-9	Bromomethane		31000	U
75-00-3	Chloroethane		31000	U
67-64-1	Acetone		31000	U
75-35-4	1,1-Dichloroethene		31000	U
75-09-2	Methylene chloride		31000	U
75-15-0	Carbon disulfide		31000	U
156-60-5	trans-1,2-Dichloroethene		31000	U
75-34-3	1,1-Dichloroethane		31000	U
78-93-3	2-Butanone		31000	U
156-59-2	cis-1,2-Dichloroethene		31000	U
67-66-3	Chloroform		31000	U
107-06-2	1,2-Dichloroethane		31000	U
71-55-6	1,1,1-Trichloroethane		4300	JD
56-23-5	Carbon tetrachloride		31000	U
71-43-2	Benzene		31000	U
79-01-6	Trichloroethene		320000	D
78-87-5	1,2-Dichloropropane		31000	U
75-27-4	Bromodichloromethane		31000	U
10061-01-5	cis-1,3-Dichloropropene		31000	U
10061-02-6	trans-1,3-Dichloropropene		31000	U
79-00-5	1,1,2-Trichloroethane		31000	U
124-48-1	Dibromochloromethane		31000	U
75-25-2	Bromoform		31000	U
108-10-1	4-Methyl-2-pentanone		31000	U
108-88-3	Toluene		31000	U
591-78-6	2-Hexanone		31000	U
127-18-4	Tetrachloroethene		31000	U
108-90-7	Chlorobenzene		31000	U
100-41-4	Ethylbenzene		31000	U
108-38-3/106-42-3	(m+p) Xylene		31000	U
95-47-6	o-Xylene		31000	U
100-42-5	Styrene		31000	U
79-34-5	1,1,2,2-Tetrachloroethane		31000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-8 7.5-8DL

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222
Matrix: (soil/water) SOIL Lab Sample ID: 700227 2500
Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3368.D
Level: (low/med) MED Date Received: 1/2/04
% Moisture: not dec. 18.8 Date Analyzed: 1/9/04
GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: ~~20.0~~ 2500
Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-10 19.8-20

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700230 1.0
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3421.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 12.2 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	11	U	
75-01-4	Vinyl chloride	11	U	
75-00-3	Chloroethane	11	U	
74-83-9	Bromomethane	11	U	
67-64-1	Acetone	12		
75-09-2	Methylene chloride	2	J	
75-15-0	Carbon disulfide	11	U	
78-93-3	2-Butanone	11	U	
156-59-2	cis-1,2-Dichloroethene	19		
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
79-01-6	Trichloroethene	20		
75-27-4	Bromodichloromethane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
124-48-1	Dibromochloromethane	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-pentanone	11	U	
108-88-3	Toluene	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
108-38-3/106-42-3	(m+p)Xylene	11	U	
100-42-5	Styrene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
95-47-6	o-Xylene	11	U	
156-60-5	trans-1,2-Dichloroethene	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
56-23-5	Carbon tetrachloride	11	U	
78-87-5	1,2-Dichloropropane	11	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-10 19.8-20

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
Matrix: (soil/water) SOIL Lab Sample ID: 700230 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3421.D
Level: (low/med) LOW Date Received: 01/02/04
% Moisture: not dec. 12.2 Date Analyzed: 01/06/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/06/04

Columbia Analytical Services

Project Reference: COOLER BLANKS

Client Sample ID : VOA COOLER BLANK 01/15/04

Date Sampled : 01/15/04 11:50 Order #: 654828 Sample Matrix: WATER
Date Received: 01/15/04 Submission #: R2417556 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 01/16/04			
ANALYTICAL DILUTION: 1.00			
ACETONE	5.0	5.0 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	1.0	1.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	1.0	1.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(83 - 118 %)	98	%
TOLUENE-D8	(88 - 124 %)	96	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	96	%

COLUMBIA ANALYTICAL SERVICES

Reported: 02/05/04

Sear-Brown Group
Project Reference: BUELL #16059
Client Sample ID : BU-GP-5, 9-9.5'-S

Date Sampled : 12/31/03	Order #: 700222	Sample Matrix: SOIL/SEDIMENT
Date Received: 01/02/04	Submission #: R2419774	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.6	%	01/20/04	11:54	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/05/04

Sear-Brown Group
Project Reference: BUELL #16059
Client Sample ID : BU-GP-5, 12-12.6'-S

Date Sampled : 12/31/03	Order #: 700225	Sample Matrix: SOIL/SEDIMENT
Date Received: 01/02/04	Submission #: R2419774	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	81.7	%	01/12/04	11:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/05/04

Sear-Brown Group
Project Reference: BUELL #16059
Client Sample ID : BU-GP-6, 10-10.5'-S

Date Sampled : 12/31/03	Order #: 700226	Sample Matrix: SOIL/SEDIMENT
Date Received: 01/02/04	Submission #: R2419774	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	81.3	%	01/12/04	11:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/05/04

Sear-Brown Group
Project Reference: BUELL #16059
Client Sample ID : BU-GP-8, 7.5-8'-S

Date Sampled : 12/31/03	Order #: 700227	Sample Matrix: SOIL/SEDIMENT
Date Received: 01/02/04	Submission #: R2419774	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	81.2	%	01/20/04	11:54	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 02/05/04

Sear-Brown Group
Project Reference: BUELL #16059
Client Sample ID : BU-GP-10,19.8-20'-S

Date Sampled : 12/31/03	Order #: 700230	Sample Matrix: SOIL/SEDIMENT
Date Received: 01/02/04	Submission #: R2419774	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	87.8	%	01/12/04	11:00	1.0

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222
 Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	SOILBLK1	102	103	97	0
02	SOILBLK1MS	101	102	98	0
03	GP-5 12-12.6	100	103	99	0
04	GP-6 10-10.5	99	102	95	0
05	GP-10 19.8-20	96	119	78	0
06	SOILBLK2	101	100	96	0
07	SOILBLK2MS	98	100	98	0
08	GP-5 12-12.6	101	100	102	0
09	GP-5 12-12.6	99	101	99	0

		QC LIMITS
SMC1	= 1,2-Dichloroethane-d4	(70-121)
SMC2	= Toluene-d8	(84-138)
SMC3	= BFB	(59-113)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D System Monitoring Compound diluted out

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: _____ SDG No.: 700222
 Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	MEDBLK	103	102	97	0
02	MEDBLK1MS	103	104	98	0
03	GP-8 7.5-8S	100	104	102	0

SMC1	=	1,2-Dichloroethane-d4	QC LIMITS (70-121)
SMC2	=	Toluene-d8	(84-138)
SMC3	=	BFB	(59-113)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D System Monitoring Compound diluted out

28
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222
 Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	MEDBLK2	99	95	86	0
02	MEDBLK2MS	98	98	90	0
03	GP-5 9-9.5	110	95	101	0
04	GP-8 7.5-8DL	109	95	100	0

		QC LIMITS
SMC1	= surr1,1,2-Dichloroethane	(70-121)
SMC2	= Toluene-d8	(84-138)
SMC3	= BFB	(59-113)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D System Monitoring Compound diluted out

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Matrix Spike - EPA Sample No.: SOILBLK1 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	54	108	66 - 142
Trichloroethene	50	0.0	53	106	62 - 137
Toluene	50	0.0	53	106	59 - 139
Chlorobenzene	50	0.0	53	106	60 - 133
1,1-Dichloroethene	50	0.0	58	116	59 - 172

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK1MS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: VBLKMS
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3410.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. 0 Date Analyzed: 01/06/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	54		
79-01-6	Trichloroethene	53		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	53		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	53		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	58		
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Matrix Spike - EPA Sample No.: SOILBLK2 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	52	104	66 - 142
Trichloroethene	50	0.0	52	104	62 - 137
Toluene	50	0.0	51	102	59 - 139
Chlorobenzene	50	0.0	52	104	60 - 133
1,1-Dichloroethene	50	0.0	51	102	59 - 172

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK2MS

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: VLKMS

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3432.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	52		
79-01-6	Trichloroethene	52		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	51		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	52		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	51		
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: _____ SDG No.: 700222
 Matrix Spike - EPA Sample No.: MEDBLK1 Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	6200	0.0	6700	108	66 - 142
Trichloroethene	6200	0.0	6600	106	62 - 137
Toluene	6200	0.0	6400	103	59 - 139
Chlorobenzene	6200	0.0	6300	102	60 - 133
1,1-Dichloroethene	6200	0.0	6500	105	59 - 172

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK1MS

Lab Name: CASIROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19774 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: VBLKMS

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3452.D

Level: (low/med) MED Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1200		U
75-01-4	Vinyl chloride	1200		U
75-00-3	Chloroethane	1200		U
74-83-9	Bromomethane	1200		U
67-64-1	Acetone	1200		U
75-09-2	Methylene chloride	1200		U
75-15-0	Carbon disulfide	1200		U
78-93-3	2-Butanone	1200		U
156-59-2	cis-1,2-Dichloroethene	1200		U
67-66-3	Chloroform	1200		U
107-06-2	1,2-Dichloroethane	1200		U
71-55-6	1,1,1-Trichloroethane	1200		U
71-43-2	Benzene	6700		
79-01-6	Trichloroethene	6600		
75-27-4	Bromodichloromethane	1200		U
10061-01-5	cis-1,3-Dichloropropene	1200		U
10061-02-6	trans-1,3-Dichloropropene	1200		U
79-00-5	1,1,2-Trichloroethane	1200		U
124-48-1	Dibromochloromethane	1200		U
75-25-2	Bromoform	1200		U
108-10-1	4-Methyl-2-pentanone	1200		U
108-88-3	Toluene	6400		
591-78-6	2-Hexanone	1200		U
127-18-4	Tetrachloroethene	1200		U
108-90-7	Chlorobenzene	6300		
100-41-4	Ethylbenzene	1200		U
108-38-3/106-42-3	(m+p)Xylene	1200		U
100-42-5	Styrene	1200		U
79-34-5	1,1,2,2-Tetrachloroethane	1200		U
95-47-6	o-Xylene	1200		U
156-60-5	trans-1,2-Dichloroethene	1200		U
75-35-4	1,1-Dichloroethene	6500		
75-34-3	1,1-Dichloroethane	1200		U
56-23-5	Carbon tetrachloride	1200		U
78-87-5	1,2-Dichloropropane	1200		U

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R4-19774 SAS No.: SDG No.: 700222
 Matrix Spike - EPA Sample No.: MEDBLK2 Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	6200	0.0	6100	98	66 - 142
Trichloroethene	6200	0.0	6200	100	62 - 137
Toluene	6200	0.0	6300	102	59 - 139
Chlorobenzene	6200	0.0	6300	102	60 - 133
1,1-Dichloroethene	6200	0.0	6400	103	59 - 172

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK2MS

Lab Name: CASIROCH Contract: SEARB

Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: VLKMS

Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3360.D

Level: (low/med) MED Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/09/04

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1200	U	
75-01-4	Vinyl chloride	1200	U	
74-83-9	Bromomethane	1200	U	
75-00-3	Chloroethane	1200	U	
75-35-4	1,1-Dichloroethene	6400		
67-64-1	Acetone	1200	U	
75-15-0	Carbon disulfide	1200	U	
75-09-2	Methylene chloride	1200	U	
156-60-5	trans-1,2-Dichloroethene	1200	U	
75-34-3	1,1-Dichloroethane	1200	U	
156-59-2	cis-1,2-Dichloroethene	1200	U	
78-93-3	2-Butanone	1200	U	
67-66-3	Chloroform	1200	U	
107-06-2	1,2-Dichloroethane	1200	U	
71-55-6	1,1,1-Trichloroethane	1200	U	
56-23-5	Carbon tetrachloride	1200	U	
71-43-2	Benzene	6100		
79-01-6	Trichloroethene	6200		
78-87-5	1,2-Dichloropropane	1200	U	
75-27-4	Bromodichloromethane	1200	U	
10061-01-5	cis-1,3-Dichloropropene	1200	U	
10061-02-6	trans-1,3-Dichloropropene	1200	U	
79-00-5	1,1,2-Trichloroethane	1200	U	
124-48-1	Dibromochloromethane	1200	U	
75-25-2	Bromoform	1200	U	
108-10-1	4-Methyl-2-pentanone	1200	U	
108-88-3	Toluene	6300		
127-18-4	Tetrachloroethene	1200	U	
591-78-6	2-Hexanone	1200	U	
108-90-7	Chlorobenzene	6300		
100-41-4	Ethylbenzene	1200	U	
108-38-3/106-42-3	(m+p) Xylene	1200	U	
95-47-6	o-Xylene	1200	U	
100-42-5	Styrene	1200	U	
79-34-5	1,1,2,2-Tetrachloroethane	1200	U	

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Matrix Spike - EPA Sample No.: GP-5 12-12.6 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Benzene	61	0.0	63	103	66 - 142
Trichloroethene	61	32	74	69	62 - 137
Toluene	61	0.0	62	102	59 - 139
Chlorobenzene	61	0.0	62	102	60 - 133
1,1-Dichloroethene	61	0.0	65	107	59 - 172

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Benzene	61	67	110	7	21	66 - 142
Trichloroethene	61	76	72	4	24	62 - 137
Toluene	61	65	107	5	21	59 - 139
Chlorobenzene	61	65	107	5	21	60 - 133
1,1-Dichloroethene	61	68	111	4	22	59 - 172

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-5 12-12.6MS

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700225 1.0MS
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3442.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 18.3 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U	
75-01-4	Vinyl chloride	12	U	
75-00-3	Chloroethane	12	U	
74-83-9	Bromomethane	12	U	
67-64-1	Acetone	4	J	
75-09-2	Methylene chloride	12	U	
75-15-0	Carbon disulfide	12	U	
78-93-3	2-Butanone	12	U	
156-59-2	cis-1,2-Dichloroethene	3	J	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
71-43-2	Benzene	63		
79-01-6	Trichloroethene	74		
75-27-4	Bromodichloromethane	12	U	
10061-01-5	cis-1,3-Dichloropropene	12	U	
10061-02-6	trans-1,3-Dichloropropene	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
124-48-1	Dibromochloromethane	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-pentanone	12	U	
108-88-3	Toluene	62		
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
108-90-7	Chlorobenzene	62		
100-41-4	Ethylbenzene	12	U	
108-38-3/106-42-3	(m+p)Xylene	12	U	
100-42-5	Styrene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
95-47-6	o-Xylene	12	U	
156-60-5	trans-1,2-Dichloroethene	12	U	
75-35-4	1,1-Dichloroethene	65		
75-34-3	1,1-Dichloroethane	12	U	
56-23-5	Carbon tetrachloride	12	U	
78-87-5	1,2-Dichloropropane	12	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-5 12-12.6MSD

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: 700225 1.0MS
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3443.D
 Level: (low/med) LOW Date Received: 01/02/04
 % Moisture: not dec. 18.3 Date Analyzed: 01/07/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U	
75-01-4	Vinyl chloride	12	U	
75-00-3	Chloroethane	12	U	
74-83-9	Bromomethane	12	U	
67-64-1	Acetone	4	J	
75-09-2	Methylene chloride	12	U	
75-15-0	Carbon disulfide	12	U	
78-93-3	2-Butanone	12	U	
156-59-2	cis-1,2-Dichloroethene	2	J	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
71-43-2	Benzene	67		
79-01-6	Trichloroethene	76		
75-27-4	Bromodichloromethane	12	U	
10061-01-5	cis-1,3-Dichloropropene	12	U	
10061-02-6	trans-1,3-Dichloropropene	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
124-48-1	Dibromochloromethane	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-pentanone	12	U	
108-88-3	Toluene	65		
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
108-90-7	Chlorobenzene	65		
100-41-4	Ethylbenzene	12	U	
108-38-3/106-42-3	(m+p)Xylene	12	U	
100-42-5	Styrene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
95-47-6	o-Xylene	12	U	
156-60-5	trans-1,2-Dichloroethene	12	U	
75-35-4	1,1-Dichloroethene	68		
75-34-3	1,1-Dichloroethane	12	U	
56-23-5	Carbon tetrachloride	12	U	
78-87-5	1,2-Dichloropropane	12	U	

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SOILBLK1

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Lab File ID: B3409.D Lab Sample ID: VLK
 Date Analyzed: 01/06/04 Time Analyzed: 12:32
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SOILBLK1MS	VLKMS	B3410.D	13:07
02	GP-5 12-12.6	700225 1.0	B3419.D	19:10
03	GP-6 10-10.5	700226 1.0	B3420.D	19:45
04	GP-10 19.8-20	700230 1.0	B3421.D	20:20

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK1

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: VBLK

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3409.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
79-01-6	Trichloroethene	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOILBLK1

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
Matrix: (soil/water) SOIL Lab Sample ID: VBLK
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3409.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 01/06/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SOILBLK2

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222
Lab File ID: B3431.D Lab Sample ID: VLK
Date Analyzed: 01/07/04 Time Analyzed: 13:06
GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y
Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GP-5 12-12.6MS	700225 1.0MS	B3442.D	19:48
02	GP-5 12-12.6MSD	700225 1.0MSD	B3443.D	20:23

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOILBLK2

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: VBLK

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3431.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
79-01-6	Trichloroethene	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOILBLK2

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222
Matrix: (soil/water) SOIL Lab Sample ID: VBLK
Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3431.D
Level: (low/med) LOW Date Received:
% Moisture: not dec. 0 Date Analyzed: 01/07/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MEDBLK1

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: _____ SDG No.: 700222
 Lab File ID: B3451.D Lab Sample ID: VLK
 Date Analyzed: 01/08/04 Time Analyzed: 13:42
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MEDBLK1MS	VLKMS	B3452.D	14:17
02	GP-8 7.5-8S	700227 125.0	B3459.D	18:43

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK1

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19774 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: VBLK

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3451.D

Level: (low/med) MED Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1200	U	
75-01-4	Vinyl chloride	1200	U	
75-00-3	Chloroethane	1200	U	
74-83-9	Bromomethane	1200	U	
67-64-1	Acetone	1200	U	
75-09-2	Methylene chloride	1200	U	
75-15-0	Carbon disulfide	1200	U	
78-93-3	2-Butanone	1200	U	
156-59-2	cis-1,2-Dichloroethene	1200	U	
67-66-3	Chloroform	1200	U	
107-06-2	1,2-Dichloroethane	1200	U	
71-55-6	1,1,1-Trichloroethane	1200	U	
71-43-2	Benzene	1200	U	
79-01-6	Trichloroethene	1200	U	
75-27-4	Bromodichloromethane	1200	U	
10061-01-5	cis-1,3-Dichloropropene	1200	U	
10061-02-6	trans-1,3-Dichloropropene	1200	U	
79-00-5	1,1,2-Trichloroethane	1200	U	
124-48-1	Dibromochloromethane	1200	U	
75-25-2	Bromoform	1200	U	
108-10-1	4-Methyl-2-pentanone	1200	U	
108-88-3	Toluene	1200	U	
591-78-6	2-Hexanone	1200	U	
127-18-4	Tetrachloroethene	1200	U	
108-90-7	Chlorobenzene	1200	U	
100-41-4	Ethylbenzene	1200	U	
108-38-3/106-42-3	(m+p)Xylene	1200	U	
100-42-5	Styrene	1200	U	
79-34-5	1,1,2,2-Tetrachloroethane	1200	U	
95-47-6	o-Xylene	1200	U	
156-60-5	trans-1,2-Dichloroethene	1200	U	
75-35-4	1,1-Dichloroethene	1200	U	
75-34-3	1,1-Dichloroethane	1200	U	
56-23-5	Carbon tetrachloride	1200	U	
78-87-5	1,2-Dichloropropane	1200	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MEDBLK1

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: VBLK
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3451.D
 Level: (low/med) MED Date Received:
 % Moisture: not dec. 0 Date Analyzed: 01/08/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MEDBLK2

Lab Name: CASIROCH Contract: SEARB
Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222
Lab File ID: R3359.D Lab Sample ID: MED BLK
Date Analyzed: 01/09/04 Time Analyzed: 11:47
GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N
Instrument ID: MSVOA6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MEDBLK2MS	VBLKMS	R3360.D	12:40
02	GP-5 9-9.5	700222 2500	R3362.D	14:00
03	GP-8 7.5-8DL	700227 2500	R3368.D	17:21

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEDBLK2

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222

Matrix: (soil/water) SOIL Lab Sample ID: MED BLK

Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3359.D

Level: (low/med) MED Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/09/04

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1200	U	
75-01-4	Vinyl chloride	1200	U	
74-83-9	Bromomethane	1200	U	
75-00-3	Chloroethane	1200	U	
75-35-4	1,1-Dichloroethene	1200	U	
67-64-1	Acetone	1200	U	
75-15-0	Carbon disulfide	1200	U	
75-09-2	Methylene chloride	1200	U	
156-60-5	trans-1,2-Dichloroethene	1200	U	
75-34-3	1,1-Dichloroethane	1200	U	
156-59-2	cis-1,2-Dichloroethene	1200	U	
78-93-3	2-Butanone	1200	U	
67-66-3	Chloroform	1200	U	
107-06-2	1,2-Dichloroethane	1200	U	
71-55-6	1,1,1-Trichloroethane	1200	U	
56-23-5	Carbon tetrachloride	1200	U	
71-43-2	Benzene	1200	U	
79-01-6	Trichloroethene	1200	U	
78-87-5	1,2-Dichloropropane	1200	U	
75-27-4	Bromodichloromethane	1200	U	
10061-01-5	cis-1,3-Dichloropropene	1200	U	
10061-02-6	trans-1,3-Dichloropropene	1200	U	
79-00-5	1,1,2-Trichloroethane	1200	U	
124-48-1	Dibromochloromethane	1200	U	
75-25-2	Bromoform	1200	U	
108-10-1	4-Methyl-2-pentanone	1200	U	
108-88-3	Toluene	1200	U	
127-18-4	Tetrachloroethene	1200	U	
591-78-6	2-Hexanone	1200	U	
108-90-7	Chlorobenzene	1200	U	
100-41-4	Ethylbenzene	1200	U	
108-38-3/106-42-3	(m+p) Xylene	1200	U	
95-47-6	o-Xylene	1200	U	
100-42-5	Styrene	1200	U	
79-34-5	1,1,2,2-Tetrachloroethane	1200	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MEDBLK2

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222
 Matrix: (soil/water) SOIL Lab Sample ID: MED BLK
 Sample wt/vol: 4.0 (g/ml) G Lab File ID: R3359.D
 Level: (low/med) MED Date Received: _____
 % Moisture: not dec. 0 Date Analyzed: 01/09/04
 GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: SDG No.: 700222
 Lab File ID: B2030.D BFB Injection Date: 10/09/03
 Instrument ID: MSVOA5 BFB Injection Time: 10:49
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.1
75	30.0 - 66.0% of mass 95	36.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	76.0
175	4.0 - 9.0% of mass 174	5.3 (7.0)1
176	93.0 - 101.0% of mass 174	72.1 (94.9)1
177	5.0 - 9.0% of mass 176	4.5 (6.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1	10PPB	B2032.D	10/09/03	12:55
02	STD2	20PPB	B2033.D	10/09/03	13:40
03	STD3	50PPB	B2034.D	10/09/03	14:15
04	STD4	100PPB	B2038.D	10/09/03	16:36
05	STD5	200PPB	B2039.D	10/09/03	17:11

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: SDG No.: 700222
 Lab File ID: B2449.D BFB Injection Date: 11/04/03
 Instrument ID: MSVOA5 BFB Injection Time: 15:35
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.2
75	30.0 - 66.0% of mass 95	39.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	72.2
175	4.0 - 9.0% of mass 174	5.3 (7.3)1
176	93.0 - 101.0% of mass 174	69.7 (96.5)1
177	5.0 - 9.0% of mass 176	4.6 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1	10PPB	B2451.D	11/04/03	16:46
02	STD2	20PPB	B2452.D	11/04/03	17:21
03	STD3	50PPB	B2453.D	11/04/03	17:57
04	STD4	100PPB	B2454.D	11/04/03	18:33
05	STD5	200PPB	B2455.D	11/04/03	19:08

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222
 Lab File ID: B3406.D BFB Injection Date: 01/06/04
 Instrument ID: MSVOA5 BFB Injection Time: 10:53
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.9
75	30.0 - 66.0% of mass 95	37.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	71.2
175	4.0 - 9.0% of mass 174	5.1 (7.2)1
176	93.0 - 101.0% of mass 174	68.5 (96.3)1
177	5.0 - 9.0% of mass 176	4.5 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	CCV	B3407.D	01/06/04	11:14
02	SOILBLK1	VLK	B3409.D	01/06/04	12:32
03	SOILBLK1MS	VLKMS	B3410.D	01/06/04	13:07
04	GP-5 12-12.6	700225 1.0	B3419.D	01/06/04	19:10
05	GP-6 10-10.5	700226 1.0	B3420.D	01/06/04	19:45
06	GP-10 19.8-20	700230 1.0	B3421.D	01/06/04	20:20

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222
 Lab File ID: B3428.D BFB Injection Date: 01/07/04
 Instrument ID: MSVOA5 BFB Injection Time: 11:03
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.0
75	30.0 - 66.0% of mass 95	37.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.1
175	4.0 - 9.0% of mass 174	5.1 (7.0)1
176	93.0 - 101.0% of mass 174	70.0 (95.8)1
177	5.0 - 9.0% of mass 176	4.6 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2	CCV	B3429.D	01/07/04	11:24
02	SOILBLK2	VBLK	B3431.D	01/07/04	13:06
03	SOILBLK2MS	VBLKMS	B3432.D	01/07/04	13:53
04	GP-5 12-12.6MS	700225 1.0MS	B3442.D	01/07/04	19:48
05	GP-5 12-12.6MSD	700225 1.0MSD	B3443.D	01/07/04	20:23

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: SDG No.: 700222
 Lab File ID: B3447.D BFB Injection Date: 01/08/04
 Instrument ID: MSVOA5 BFB Injection Time: 11:06
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	38.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	69.5
175	4.0 - 9.0% of mass 174	5.0 (7.2)1
176	93.0 - 101.0% of mass 174	67.4 (97.0)1
177	5.0 - 9.0% of mass 176	4.7 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	CCV	B3448.D	01/08/04	11:27
02	MEDBLK	VBLK	B3451.D	01/08/04	13:42
03	MEDBLK1MS	VBLKMS	B3452.D	01/08/04	14:17
04	GP-8 7.5-8S	700227 125.0	B3459.D	01/08/04	18:43

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R4-19774 SAS No.: _____ SDG No.: 700222
 Lab File ID: R3332.D BFB Injection Date: 01/08/04
 Instrument ID: MSVOA6 BFB Injection Time: 12:00
 GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.7
75	30.0 - 66.0% of mass 95	41.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (0.5)1
174	50.0 - 120.0% of mass 95	116.5
175	4.0 - 9.0% of mass 174	8.0 (6.9)1
176	93.0 - 101.0% of mass 174	115.8 (99.4)1
177	5.0 - 9.0% of mass 176	7.4 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	VSTD010	R3334.D	01/08/04	13:23
02	VSTD2	VSTD020	R3335.D	01/08/04	13:53
03	VSTD3	VSTD050	R3336.D	01/08/04	14:23
04	VSTD4	VSTD100	R3337.D	01/08/04	14:53
05	VSTD5	VSTD200	R3338.D	01/08/04	15:28

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R4-19774 SAS No.: SDG No.: 700222
 Lab File ID: R3357.D BFB Injection Date: 01/09/04
 Instrument ID: MSVOA6 BFB Injection Time: 10:38
 GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.8
75	30.0 - 66.0% of mass 95	44.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.1
173	Less than 2.0% of mass 174	0.8 (0.7)1
174	50.0 - 120.0% of mass 95	118.9
175	4.0 - 9.0% of mass 174	8.9 (7.5)1
176	93.0 - 101.0% of mass 174	117.2 (98.6)1
177	5.0 - 9.0% of mass 176	7.5 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2	VSTD050	R3358.D	01/09/04	11:13
02	MEDBLK2	MED BLK	R3359.D	01/09/04	11:47
03	MEDBLK2MS	VBLKMS	R3360.D	01/09/04	12:40
04	GP-5 9-9.5	700222 2500	R3362.D	01/09/04	14:00
05	GP-8 7.5-8DL	700227 2500	R3368.D	01/09/04	17:21

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: SDG No.: 700222
 Lab File ID (Standard): B3407.D Date Analyzed: 01/06/04
 Instrument ID: MSVOA5 Time Analyzed: 11:14
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR ST	114978	9.48	791229	11.31	763948	16.83
UPPER LIMIT	229956	8.98	1582458	10.81	1527896	16.33
LOWER LIM	57489	9.98	395615	11.81	381974	17.33
EPA SAMPLE NO.						
01 SOILBLK1	114765	9.48	812358	11.30	764843	16.83
02 SOILBLK1MS	109973	9.48	777950	11.30	750509	16.83
03 GP-5 12-12.6	102616	9.46	695785	11.29	682282	16.82
04 GP-6 10-10.5	104526	9.47	732869	11.29	692266	16.81
05 GP-10 19.8-20	95088	9.47	627380	11.29	493387	16.82

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19977 SAS No.: _____ SDG No.: 700222
 Lab File ID (Standard): B3429.D Date Analyzed: 01/07/04
 Instrument ID: MSVOA5 Time Analyzed: 11:24
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR ST	114386	9.47	802387	11.29	778707	16.82
UPPER LIMIT	228772	8.97	1604774	10.79	1557414	16.32
LOWER LIM	57193	9.97	401194	11.79	389354	17.32
EPA SAMPLE NO.						
01 SOILBLK2	111052	9.47	759484	11.29	724859	16.82
02 SOILBLK2MS	115524	9.47	779604	11.29	741960	16.82
03 GP-5 12-12.6	97369	9.46	689059	11.29	664273	16.81
04 GP-5 12-12.6	100396	9.46	702253	11.28	674965	16.81

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19774 SAS No.: SDG No.: 700222
 Lab File ID (Standard): B3448.D Date Analyzed: 01/08/04
 Instrument ID: MSVOA5 Time Analyzed: 11:27
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1		IS2		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR ST	125631	9.46	793934	11.28	792475	16.81
UPPER LIMIT	251262	8.96	1587868	10.78	1584950	16.31
LOWER LIM	62816	9.96	396967	11.78	396238	17.31
EPA SAMPLE NO.						
01 MEDBLK	116329	9.46	739588	11.29	757927	16.81
02 MEDBLK1MS	117151	9.46	730230	11.28	730384	16.81
03 GP-8 7.5-8S	117995	9.45	754029	11.27	758136	16.80

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R4-19774 SAS No.: SDG No.: 700222
 Lab File ID (Standard): R3358.D Date Analyzed: 01/09/04
 Instrument ID: MSVOA6 Time Analyzed: 11:13
 GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1		IS2		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR ST	138239	7.86	690105	8.94	621763	11.21
UPPER LIMIT	276478	7.36	1380210	8.44	1243526	10.71
LOWER LIM	69120	8.36	345053	9.44	310882	11.71
EPA SAMPLE NO.						
01 MEDBLK2	147943	7.86	788376	8.94	682240	11.21
02 MEDBLK2MS	145568	7.86	726221	8.93	629337	11.20
03 GP-5 9-9.5	211868	7.86	1038171	8.94	929865	11.21
04 GP-8 7.5-8DL	230932	7.86	1201273	8.94	1058702	11.21

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

Appendix L

Recovery Well Construction Detail Logs



OVERBURDEN MONITORING WELL
DESIGN DETAILS

PROJECT NAME: BCA - IRM
PROJECT NUMBER: 16059
CLIENT: Buell Automatics
LOCATION: 381 Buell Road, Rochester, NY

HOLE DESIGNATION: RW-2
DATE COMPLETED: 12/30/03
DRILLING METHOD: NA
SUPERVISOR: A. Krause

SURFACE SEAL TYPE Concrete

FLUSH MOUNT ROAD BOX

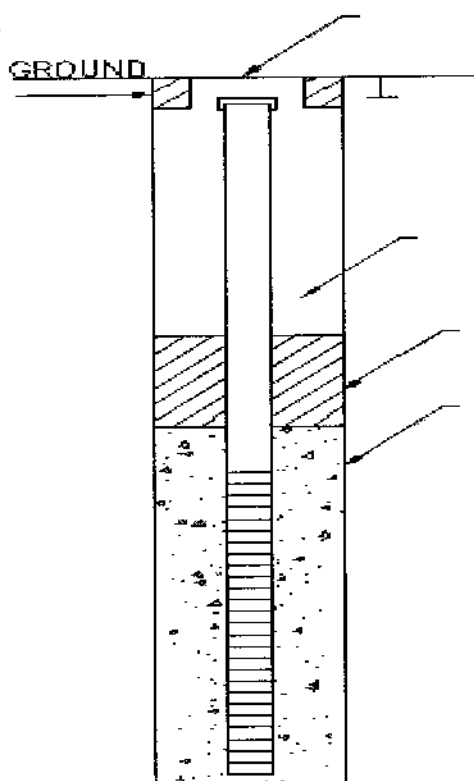
TOP OF SEAL @ 0.5 ft

BOTTOM OF SEAL @ 1.0 ft

TOP OF SCREEN @ 1.5 ft

BOTTOM OF SCREEN @ 6.5 ft

BOTTOM OF HOLE @ 12.0 ft



WELL CASING
ANNULUS BACKFILL
TYPE: Cement
SEAL TYPE: Bentonite
PACK TYPE:
SAND, SIZE Quartzite Sand, 00N

NOTE:
ALL DIMENSIONS ARE
BELOW GROUND SURFACE (BGS)

SCREEN TYPE: CONTINUOUS SLOT ☐ PERFORATED ☒ LOUVRE ☐ OTHER ☐

SCREEN MATERIAL: STAINLESS STEEL ☒ PVC ☐ OTHER ☐

SCREEN LENGTH: 5.0 ft SCREEN DIAMETER: 6.0 in. ID SCREEN SLOT SIZE: 0.010 inch

WELL CASING MATERIAL: Stainless Steel WELL CASING DIAMETER: 6.0 in.

HOLE DIAMETER: NA



SEAR-BROWN

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NAME: BCA - IRM
PROJECT NUMBER: 16059
CLIENT: Buell Automatics
LOCATION: 381 Buell Road, Rochester, NY

HOLE DESIGNATION: RW-1
DATE COMPLETED: 12/30/03
DRILLING METHOD: NA
SUPERVISOR: A. Krause

SURFACE SEAL TYPE Concrete

FLUSH MOUNT ROAD BOX

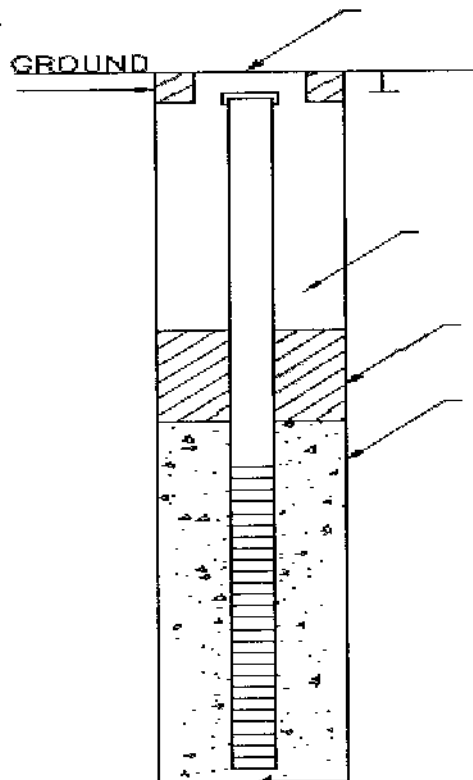
TOP OF SEAL @ 0.5 ft

BOTTOM OF SEAL @ 1.5 ft

TOP OF SCREEN @ 2.0 ft

BOTTOM OF SCREEN @ 6.0 ft

BOTTOM OF HOLE @ 12.0 ft



WELL CASING
ANNULUS BACKFILL
TYPE: Cement

SEAL TYPE: Bentonite

PACK TYPE:
SAND, SIZE Quartzite Sand, 00N

NOTE:
ALL DIMENSIONS ARE
BELOW GROUND SURFACE (BGS)

SCREEN TYPE: CONTINUOUS SLOT PERFORATED x LOUVRE OTHER

SCREEN MATERIAL: STAINLESS STEEL X PVC OTHER

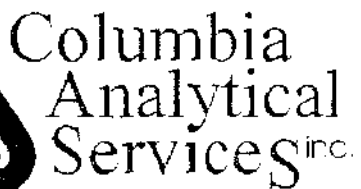
SCREEN LENGTH: 4.0 ft SCREEN DIAMETER: 6.0 in. ID SCREEN SLOT SIZE: 0.010 inch

WELL CASING MATERIAL: Stainless Steel WELL CASING DIAMETER: 6.0 in.

HOLE DIAMETER: NA

Appendix M

IRM Groundwater Analytical Summary Report



Services^{inc.}

cc Ms. Judy Harry
Data Validation
PO Box 208
Cobblecreek Rd.
North Creek, NY 12853



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Sear-Brown Group
Project Reference: BUELL #16059
Lab Submission # : R2419875
Project Manager : Karen Bunker
Reported : 02/17/04

Report Contains a total of 31 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael E. Papp*

CASE NARRATIVE

COMPANY: Sear Brown
PROJECT: Buell Automatic #16059
SUBMISSION #: R2419875
SDG#: 702133

Water samples were collected by Sear Brown on 1/13/04 and received at CAS on 1/14/04. Samples were received in good condition, unbroken at a cooler temperature of 5°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers.

VOLATILE ORGANICS

Two (2) water samples and one (1) Trip Blank were analyzed using ASP method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 10 day holding time from VTSR for this method.

Site Specific QC was performed on location RW-1-W (CAS Order # 702133). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were within limits except for Trichloroethene which was low for both the MS and MSD (68% - limits 71-120). Both recoveries were flagged as "N". All Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

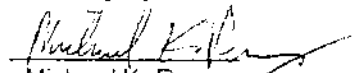
Samples were diluted as appropriate to bring target compounds into the calibration range of the standards. Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. No TIC's were found in these samples.

No Cooler Blank was set up due to a laboratory error. The Trip Blank and Laboratory Method Blanks were free of contamination.

No problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Michael K. Perry
Laboratory Manager

2/14/04
Date

[illegible]



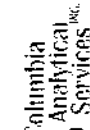
ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited

NELAP Accredited
 New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



885

CAS Contact

[illegible]

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Cooler Receipt And Preservation Check Form

Project/Client S. & Brown Submission Number R2419875

Cooler received on 1/14/04 by: ICN COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were ice or ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: _____

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 1/14/04

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 1/14/04 by: ICN

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample ID	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				
<u>12</u>				

Other Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-1-W

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3569.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		14	
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		14	
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide		10	U
78-93-3	2-Butanone		7	J
156-59-2	cis-1,2-Dichloroethene		33	
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		33	
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
124-48-1	Dibromochloromethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		8	J
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
108-38-3/106-42-3	(m+p)Xylene		1	J
100-42-5	Styrene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
95-47-6	o-Xylene		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		8	J
56-23-5	Carbon tetrachloride		10	U
78-87-5	1,2-Dichloropropane		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-1-W

Lab Name: CAS/ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3569.D
Level: (low/med) LOW Date Received: 01/14/04
% Moisture: not dec. _____ Date Analyzed: 01/19/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-2-W

Lab Name: CASIROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702134 100.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3568.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 100.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1000	U
75-01-4	Vinyl chloride		440	J
75-00-3	Chloroethane		1000	U
74-83-9	Bromomethane		1000	U
67-64-1	Acetone		1000	U
75-09-2	Methylene chloride		1000	U
75-15-0	Carbon disulfide		1000	U
78-93-3	2-Butanone		1000	U
156-59-2	cis-1,2-Dichloroethene		15000	
67-66-3	Chloroform		1000	U
107-06-2	1,2-Dichloroethane		1000	U
71-55-6	1,1,1-Trichloroethane		200	J
71-43-2	Benzene		1000	U
79-01-6	Trichloroethene		8100	
75-27-4	Bromodichloromethane		1000	U
10061-01-5	cis-1,3-Dichloropropene		1000	U
10061-02-6	trans-1,3-Dichloropropene		1000	U
79-00-5	1,1,2-Trichloroethane		1000	U
124-48-1	Dibromochloromethane		1000	U
75-25-2	Bromoform		1000	U
108-10-1	4-Methyl-2-pentanone		1000	U
108-88-3	Toluene		1000	U
591-78-6	2-Hexanone		1000	U
127-18-4	Tetrachloroethene		1000	U
108-90-7	Chlorobenzene		1000	U
100-41-4	Ethylbenzene		1000	U
108-38-3/106-42-3	(m+p)Xylene		1000	U
100-42-5	Styrene		1000	U
79-34-5	1,1,2,2-Tetrachloroethane		1000	U
95-47-6	o-Xylene		1000	U
156-60-5	trans-1,2-Dichloroethene		1000	U
75-35-4	1,1-Dichloroethene		1000	U
75-34-3	1,1-Dichloroethane		120	J
56-23-5	Carbon tetrachloride		1000	U
78-87-5	1,2-Dichloropropane		1000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-2-W

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: 702134 100.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3568.D
Level: (low/med) LOW Date Received: 01/14/04
% Moisture: not dec. _____ Date Analyzed: 01/19/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLK

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Matrix: (soil/water) WATER Lab Sample ID: 702135 1.0
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3579.D
 Level: (low/med) LOW Date Received: 01/14/04
 % Moisture: not dec. _____ Date Analyzed: 01/20/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		10	U
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide		10	U
78-93-3	2-Butanone		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
124-48-1	Dibromochloromethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
108-38-3/106-42-3	(m+p)Xylene		10	U
100-42-5	Styrene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
95-47-6	o-Xylene		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
78-87-5	1,2-Dichloropropane		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLK

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
 Matrix: (soil/water) WATER Lab Sample ID: 702135 1.0
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3579.D
 Level: (low/med) LOW Date Received: 01/14/04
 % Moisture: not dec. Date Analyzed: 01/20/04
 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VBK1	98	97	89	0
02	VBK1MS	107	102	94	0
03	RW-2-W	104	102	94	0
04	RW-1-W	101	103	93	0
05	RW-1-WMS	104	102	95	0
06	RW-1-WMSD	109	103	97	0
07	VBK2	98	100	90	0
08	VBK2MS	96	101	90	0
09	TRIP BLK	98	103	92	0

		QC LIMITS
SMC1	= 1,2-Dichloroethane-d4	(76-114)
SMC2	= Toluene-d8	(88-110)
SMC3	= BFB	(86-115)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS\ROCH Contract: SEARBLab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133Matrix Spike - EPA Sample No.: VLBK1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	51	102	76 - 127
Trichloroethene	50	0.0	51	102	71 - 120
Toluene	50	0.0	51	102	76 - 125
Chlorobenzene	50	0.0	50	100	75 - 130
1,1-Dichloroethene	50	0.0	56	112	61 - 145

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1MS

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: VBLKMS

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3567.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		10	U
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide		10	U
78-93-3	2-Butanone		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-86-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		51	
79-01-6	Trichloroethene		51	
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
124-48-1	Dibromochloromethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		51	
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		50	
100-41-4	Ethylbenzene		10	U
108-38-3/106-42-3	(m+p)Xylene		10	U
100-42-5	Styrene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
95-47-6	o-Xylene		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		56	
75-34-3	1,1-Dichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
78-87-5	1,2-Dichloropropane		10	U

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CASIROCHContract: SEARBLab Code: 10145Case No.: R3-19875

SAS No.: _____

SDG No.: 702133Matrix Spike - EPA Sample No.: VLK2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	47	94	76 - 127
Trichloroethene	50	0.0	46	92	71 - 120
Toluene	50	0.0	47	94	76 - 125
Chlorobenzene	50	0.0	46	92	75 - 130
1,1-Dichloroethene	50	0.0	48	96	61 - 145

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2MS

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: vbikms

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3578.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	47		
79-01-6	Trichloroethene	46		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	47		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	46		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	48		
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS\ROCHContract: SEARBLab Code: 10145Case No.: R3-19875

SAS No.: _____

SDG No.: 702133Matrix Spike - EPA Sample No.: RW-1-W

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Benzene	50	0.0	44	88	76 - 127
Trichloroethene	50	33	67	68 *	71 - 120
Toluene	50	7.8	47	78	76 - 125
Chlorobenzene	50	0.0	42	84	75 - 130
1,1-Dichloroethene	50	0.0	46	92	61 - 145

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Benzene	50	44	88	0	11	76 - 127
Trichloroethene	50	67	68 *	0	14	71 - 120
Toluene	50	48	80	3	13	76 - 125
Chlorobenzene	50	43	86	2	13	75 - 130
1,1-Dichloroethene	50	46	92	0	14	61 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-1-WMS

Lab Name: CASROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0ms

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3570.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		8	J
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		12	
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide		10	U
78-93-3	2-Butanone		6	J
156-59-2	cis-1,2-Dichloroethene		24	
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		44	
79-01-6	Trichloroethene		67	
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
124-48-1	Dibromochloromethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		47	
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		42	
100-41-4	Ethylbenzene		10	U
108-38-3/106-42-3	(m+p)Xylene		10	U
100-42-5	Styrene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
95-47-6	o-Xylene		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		46	
75-34-3	1,1-Dichloroethane		5	J
56-23-5	Carbon tetrachloride		10	U
78-87-5	1,2-Dichloropropane		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-1-WMSD

Lab Name: CAS\ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: 702133 1.0msd

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3571.D

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	8	J	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	12		
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	5	J	
156-59-2	cis-1,2-Dichloroethene	24		
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	44		
79-01-6	Trichloroethene	67		
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	48		
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	43		
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	46		
75-34-3	1,1-Dichloroethane	5	J	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Lab File ID: B3566.D Lab Sample ID: VBLK
 Date Analyzed: 01/19/04 Time Analyzed: 13:12
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK1MS	VBLKMS	B3567.D	14:14
02	RW-2-W	702134 100.0	B3568.D	15:11
03	RW-1-W	702133 1.0	B3569.D	16:20
04	RW-1-WMS	702133 1.0MS	B3570.D	16:55
05	RW-1-WMSD	702133 1.0MSD	B3571.D	17:30

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1

Lab Name: CASI/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: VBLK

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3566.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
75-00-3	Chloroethane	10	U	
74-83-9	Bromomethane	10	U	
67-64-1	Acetone	10	U	
75-09-2	Methylene chloride	10	U	
75-15-0	Carbon disulfide	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
79-01-6	Trichloroethene	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
108-88-3	Toluene	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
108-38-3/106-42-3	(m+p)Xylene	10	U	
100-42-5	Styrene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
95-47-6	o-Xylene	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
56-23-5	Carbon tetrachloride	10	U	
78-87-5	1,2-Dichloropropane	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK1

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: VBLK
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3566.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 01/19/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Lab File ID: B3577.D Lab Sample ID: vblk
 Date Analyzed: 01/20/04 Time Analyzed: 12:22
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK2MS	VBLKMS	B3578.D	13:21
02	TRIP BLK	702135 1.0	B3579.D	14:09

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2

Lab Name: CAS/ROCH Contract: SEARB

Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133

Matrix: (soil/water) WATER Lab Sample ID: vblk

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3577.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		10	U
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide		10	U
78-93-3	2-Butanone		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
124-48-1	Dibromochloromethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
108-38-3/106-42-3	(m+p)Xylene		10	U
100-42-5	Styrene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
95-47-6	o-Xylene		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
78-87-5	1,2-Dichloropropane		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK2

Lab Name: CAS\ROCH Contract: SEARB
Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
Matrix: (soil/water) WATER Lab Sample ID: vbkl
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B3577.D
Level: (low/med) LOW Date Received:
% Moisture: not dec. Date Analyzed: 01/20/04
GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0
Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Lab File ID: B2449.D BFB Injection Date: 11/04/03
 Instrument ID: MSVOA5 BFB Injection Time: 15:35
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.2
75	30.0 - 66.0% of mass 95	39.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	72.2
175	4.0 - 9.0% of mass 174	5.3 (7.3)1
176	93.0 - 101.0% of mass 174	69.7 (96.5)1
177	5.0 - 9.0% of mass 176	4.6 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1	10PPB	B2451.D	11/04/03	16:46
02	STD2	20PPB	B2452.D	11/04/03	17:21
03	STD3	50PPB	B2453.D	11/04/03	17:57
04	STD4	100PPB	B2454.D	11/04/03	18:33
05	STD5	200PPB	B2455.D	11/04/03	19:08

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
 Lab File ID: B3563.D BFB Injection Date: 01/19/04
 Instrument ID: MSVOA5 BFB Injection Time: 11:25
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	41.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	74.0
175	4.0 - 9.0% of mass 174	5.3 (7.2)1
176	93.0 - 101.0% of mass 174	70.7 (95.5)1
177	5.0 - 9.0% of mass 176	4.4 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	CCV	B3564.D	01/19/04	11:46
02	VLK1	VLK	B3566.D	01/19/04	13:12
03	VLK1MS	VLKMS	B3567.D	01/19/04	14:14
04	RW-2-W	702134 100.0	B3568.D	01/19/04	15:11
05	RW-1-W	702133 1.0	B3569.D	01/19/04	16:20
06	RW-1-WMS	702133 1.0MS	B3570.D	01/19/04	16:55
07	RW-1-WMSD	702133 1.0MSD	B3571.D	01/19/04	17:30

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: SDG No.: 702133
 Lab File ID: B3574.D BFB Injection Date: 01/20/04
 Instrument ID: MSVOA5 BFB Injection Time: 10:31
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.7
75	30.0 - 66.0% of mass 95	41.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	72.7
175	4.0 - 9.0% of mass 174	4.9 (6.8)1
176	93.0 - 101.0% of mass 174	70.2 (96.6)1
177	5.0 - 9.0% of mass 176	4.5 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2	CCV	B3575.D	01/20/04	10:51
02	VBLK2	VBLK	B3577.D	01/20/04	12:22
03	VBLK2MS	VBLKMS	B3578.D	01/20/04	13:21
04	TRIP BLK	702135 1.0	B3579.D	01/20/04	14:09

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: SEAR8
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Lab File ID (Standard): B3564.D Date Analyzed: 01/19/04
 Instrument ID: MSVOA5 Time Analyzed: 11:46
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR ST	102684	9.50	621200	11.33	612782	16.87
UPPER LIMIT	205368	9.00	1242400	10.83	1225564	16.37
LOWER LIMIT	51342	10.00	310600	11.83	306391	17.37
EPA SAMPLE NO.						
01 VBLK1	105086	9.51	644197	11.33	617184	16.86
02 VBLK1MS	97872	9.50	618110	11.32	586414	16.86
03 RW-2-W	99999	9.50	601038	11.32	566024	16.85
04 RW-1-W	100065	9.50	590604	11.32	559287	16.85
05 RW-1-WMS	113614	9.49	684210	11.32	656158	16.85
06 RW-1-WMSD	106880	9.50	661702	11.32	630357	16.85

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASIROCH Contract: SEARB
 Lab Code: 10145 Case No.: R3-19875 SAS No.: _____ SDG No.: 702133
 Lab File ID (Standard): B3575.D Date Analyzed: 01/20/04
 Instrument ID: MSVOA5 Time Analyzed: 10:51
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR ST	97405	9.48	588576	11.30	585470	16.82
UPPER LIMIT	194810	8.98	1177152	10.80	1170940	16.32
LOWER LIM	48703	9.98	294288	11.80	292735	17.32
EPA SAMPLE NO.						
01 VBLK2	98340	9.47	613630	11.30	583391	16.82
02 VBLK2MS	99360	9.47	592339	11.30	572190	16.82
03 TRIP BLK	98156	9.47	593797	11.29	561096	16.82

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

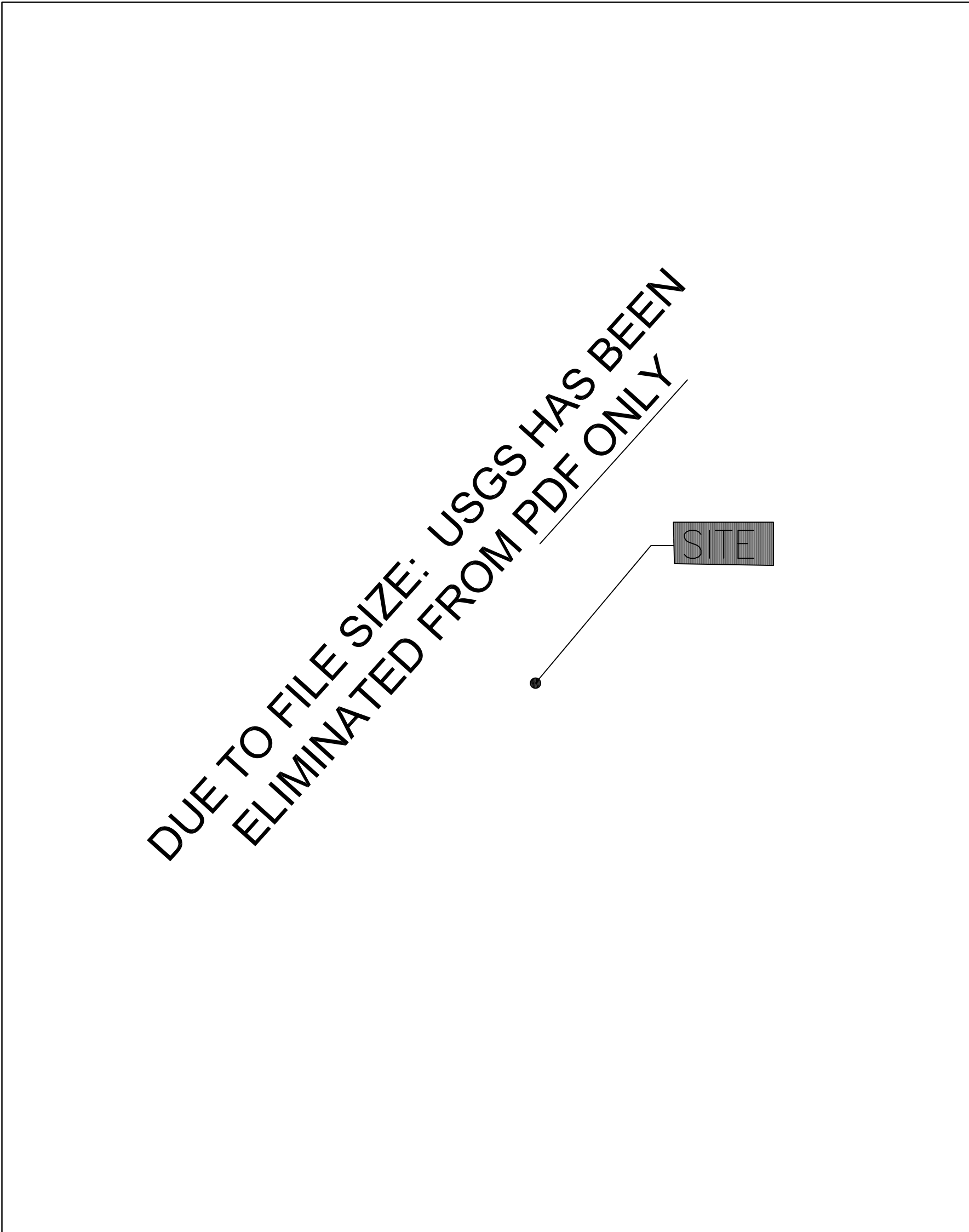
AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

Drawings

Profile:
Land Desktop
Note: PC0177

Plotting Parameters
Plot File: L:\J085\16059\CIVIL\RM - As Built\A-EN.dwg
Plotted: Mar 25, 2004 - 12:50m



SOURCE:
USGS QUADS.
SCALE: 1"=2000'

DRAWING INDEX:

- EN-1 TITLE SHEET
- EN-2 GENERAL NOTES
- EN-3 SOURCE REMOVAL AREA (EXCAVATION), STAGING AND DECONTAMINATION PLAN
- EN-3A ACTUAL SOURCE REMOVAL AREA (EXCAVATION), SOIL SAMPLE AND BORING LOCATION PLAN
- EN-4 RESTORATION PLAN

RECORD DRAWINGS FOR
INTERIM REMEDIAL MEASURES
BUELL AUTOMATICS, INC.
NYSDEC SITE NO. V00330-8
BROWNFIELDS CLEANUP AGREEMENT INDEX NO. B8-0576-00-04A

381 BUELL ROAD
TOWN OF GATES
MONROE COUNTY, NY 14624

SEAR-BROWN PROJECT NO. 16059

PREPARED FOR:

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
6274 EAST AVON-LIMA ROAD
AVON, NEW YORK 14414

PREPARED ON BEHALF OF:

BUELL AUTOMATICS, INC.
381 BUELL ROAD
ROCHESTER, NEW YORK 14624

PREPARED BY:

THE SEAR-BROWN GROUP, INC.
85 METRO PARK
ROCHESTER, NEW YORK 14623-2674

I HEREBY CERTIFY BY MY SIGNATURE AND SEAL THAT I HAVE PREPARED THIS RECORD DRAWING SET. TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND IN MY PROFESSIONAL OPINION, THE RECORD DRAWINGS GENERALLY DEPICT THE INTERIM ENVIRONMENTAL REMEDIATION WORK COMPLETED AT THE BUELL AUTOMATICS, INC. SITE.

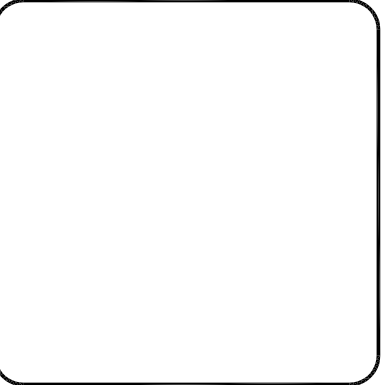
CERTIFIED BY:

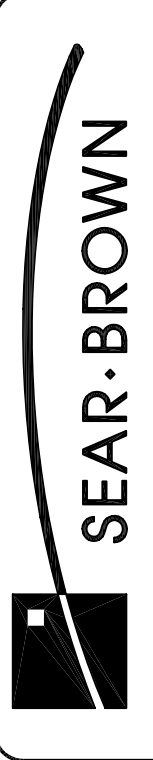
PROJECT ENGINEER

DATE

6					
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4					
3					
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1					
0	RECORD DRAWINGS	REVISIONS	DATE	BY	

PROJECT ENGINEER/ARCHITECT D. BELASKAS, P.E.	
PROJECT MANAGER M. STORONSKY	
DRAWN BY M. CONLEY/E.I.T.	FIRST ISSUE DATE 11/10/03
SCALE NTS	





SEAR-BROWN

85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT INTERIM REMEDIAL MEASURES BUELL AUTOMATICS, INC. 381 BUELL RD ROCHESTER, NY 14624	TITLE OF DRAWING TITLE SHEET

PROJECT NO.
16059
DRAWING NO.
EN-1

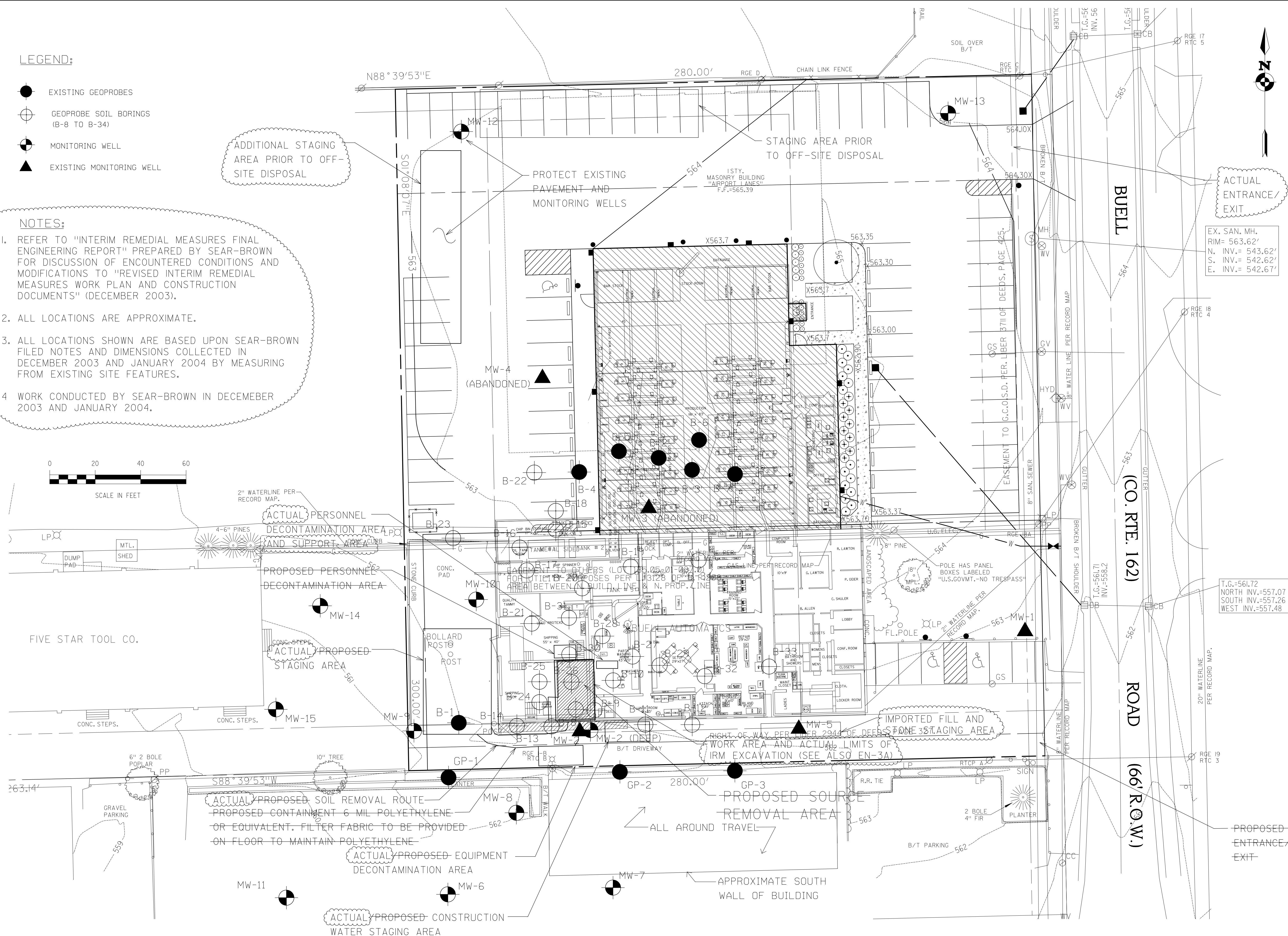
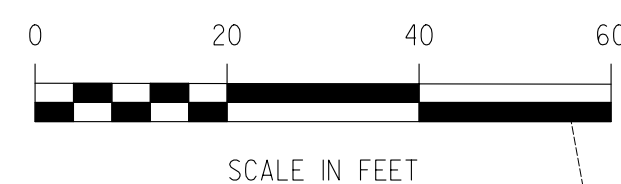
PAYMENT FOR EXCAVATION AND BACKFILLING OF ONSITE CLEAN SOILS WILL BE BASED ON EXCAVATION VOLUMES AS DETERMINED BY MEASUREMENTS PERFORMED BY SEAR-BROWN.

LEGEND:

- EXISTING GEOPROBES
- ⊕ GEOPROBE SOIL BORINGS (B-8 TO B-34)
- ⊙ MONITORING WELL
- ▲ EXISTING MONITORING WELL

NOTES:

1. REFER TO "INTERIM REMEDIAL MEASURES FINAL ENGINEERING REPORT" PREPARED BY SEAR-BROWN FOR DISCUSSION OF ENCOUNTERED CONDITIONS AND MODIFICATIONS TO "REVISED INTERIM REMEDIAL MEASURES WORK PLAN AND CONSTRUCTION DOCUMENTS" (DECEMBER 2003).
2. ALL LOCATIONS ARE APPROXIMATE.
3. ALL LOCATIONS SHOWN ARE BASED UPON SEAR-BROWN FILED NOTES AND DIMENSIONS COLLECTED IN DECEMBER 2003 AND JANUARY 2004 BY MEASURING FROM EXISTING SITE FEATURES.
4. WORK CONDUCTED BY SEAR-BROWN IN DECEMBER 2003 AND JANUARY 2004.



NO.	REVISIONS	DATE	BY
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0	RECORD DRAWINGS	3/25/04	MEG/PA

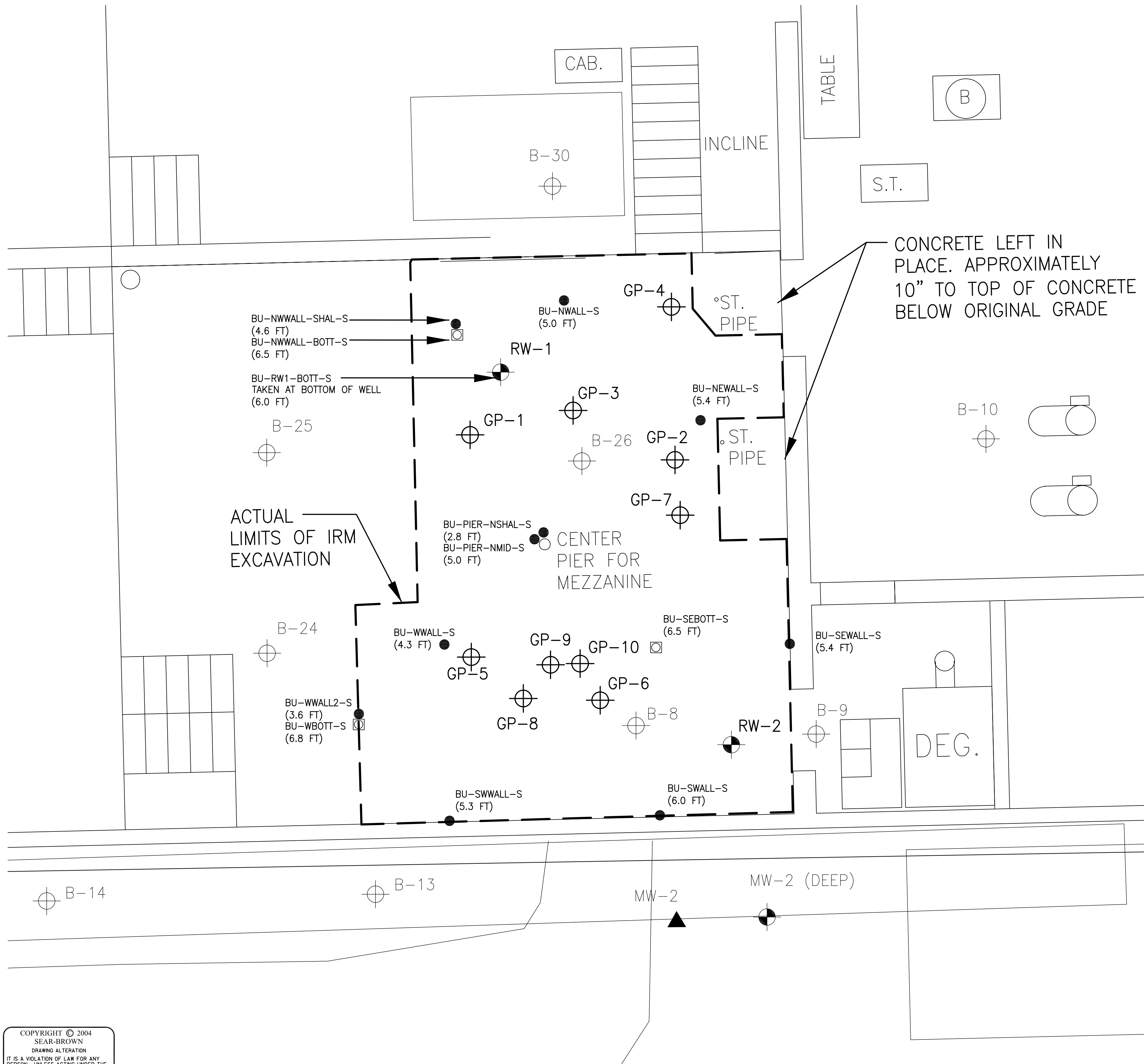
PROJECT ENGINEER/ARCHITECT D. BELASKAS, P.E.	DRAWN BY M. CONLEY, E.I.T.
PROJECT MANAGER M. STORONSKY	FIRST ISSUE DATE 11/10/03
	SCALE 1"=20'

SEAR · BROWN

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Rochester, NY 14623-2674
Tel (585) 475-1440
Fax (585) 272-1814
www.searbrown.com

PROJECT INTERIM REMEDIAL MEASURES WORK PLAN BUELL AUTOMATICS, INC. 381 BUELL RD ROCHESTER, NY 14624	TITLE OF DRAWING ACTUAL SOURCE REMOVAL AREA (EXCAVATION), STAGING AND DECONTAMINATION PLAN

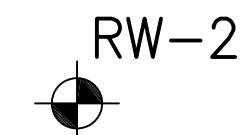
PROJECT NO. 16059	DRAWING NO. EN-3



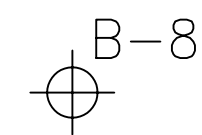
LEGEND



GEOPROBE BORINGS CONDUCTED BY SEAR BROWN DURING DECEMBER 2003



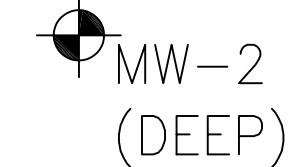
STAINLESS STEEL RECOVERY WELLS INSTALLED IN DECEMBER 2003



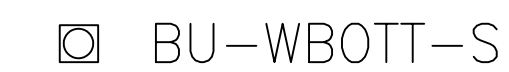
EXISTING SOIL BORINGS



EXISTING MONITORING WELLS



CONFIRMATORY WALL EXCAVATION SOIL SAMPLE



CONFIRMATORY BOTTOM EXCAVATION SOIL SAMPLE

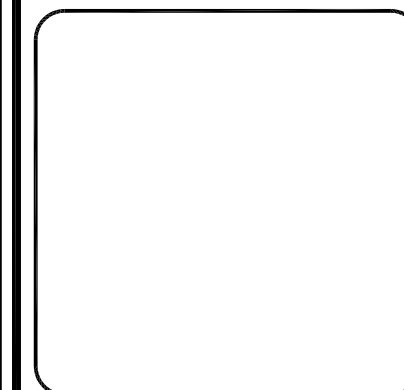
NOTES:

1. ALL LOCATIONS SHOWN ARE APPROXIMATE.
2. ALL LOCATIONS SHOWN ARE BASED UPON SEAR-BROWN FIELD NOTES AND DIMENSIONS COLLECTED IN DECEMBER 2003 AND JANUARY 2004 BY MEASURING FROM EXISTING SITE FEATURES.
3. WORK CONDUCTED BY SEAR BROWN IN DECEMBER 2003 AND JANUARY 2004.
4. REFERENCE : "REVISED INTERIM REMEDIAL MEASURES WORK PLAN AND CONSTRUCTION DOCUMENTS VCA INDEX # V00330-8 BCA INDEX # B8-0576-00-04A REPORT" PREPARED BY SEAR BROWN AND DATED DECEMBER 2003.

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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF LICENSED ARCHITECT, PROFESSIONAL ENGINEER, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER ANY ITEM ON THIS DOCUMENT IN ANY WAY.
ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS OR HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATIONS.

NO.	REVISIONS	DATE	BY
6			
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0	ADD CONFIRMATORY SOIL SAMPLES	3/25/04	MEC/AF

PROJECT ENGINEER/ARCHITECT D. BELASKAS, P.E.	FIRST ISSUE DATE 12/29/03
PROJECT MANAGER M. STORONSKY	SCALE AS SHOWN
DRAWN BY M. CONLEY, E.I.T.	



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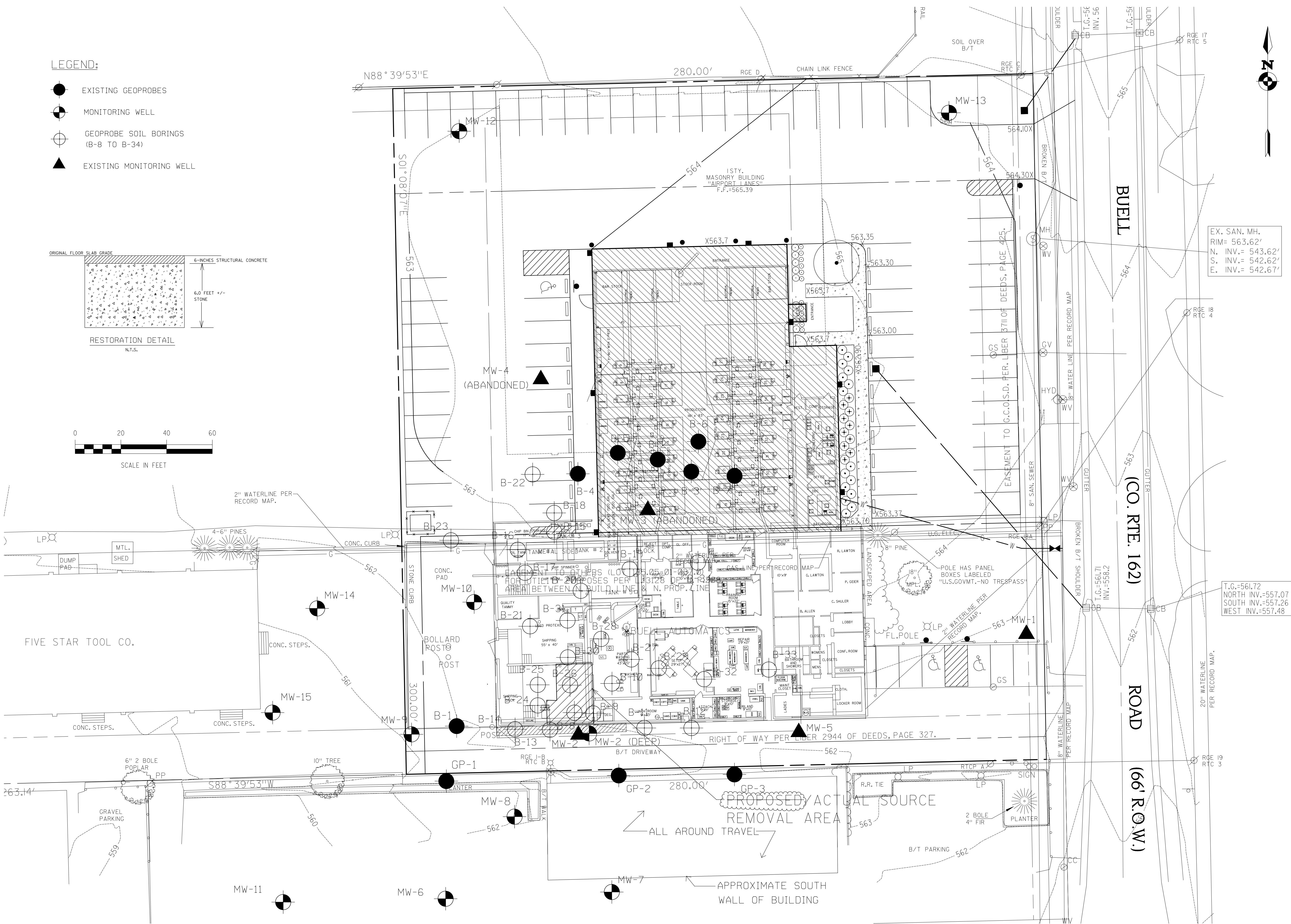
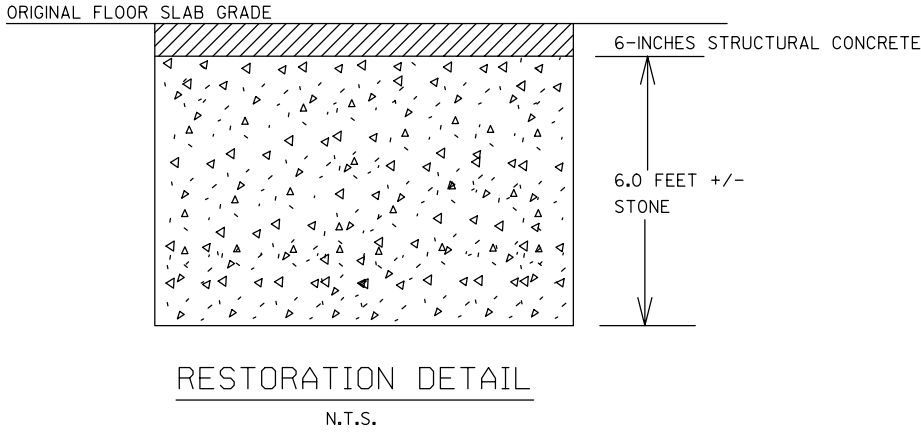
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Fax: (585) 272-1814
www.searbrown.com

PROJECT INTERIM REMEDIAL MEASURES WORK PLAN BUELL AUTOMATICS, INC. 381 BUELL RD ROCHESTER, NY 14624	TITLE OF DRAWING ACTUAL SOURCE REMOVAL AREA (EXCAVATION), SOIL SAMPLE AND BORING LOCATION PLAN

PROJECT NO. 16059	DRAWING NO. EN-3A

LEGEND:

- EXISTING GEOPROBES
- ⊙ MONITORING WELL
- ⊕ GEOPROBE SOIL BORINGS (B-8 TO B-34)
- ▲ EXISTING MONITORING WELL



NO.	DESCRIPTION	DATE	BY
6			
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0	AS-BUILT/RECORD PLANS	3/25/04	APL

PROJECT ENGINEER/ARCHITECT D. BELASKAS, P.E.	DRAWN BY M. CONLEY, E.I.T.
PROJECT MANAGER M. STORONSKY	SCALE 1"=20'
	FIRST ISSUE DATE 11/10/03

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PROJECT
**INTERIM REMEDIAL MEASURES WORK PLAN
BUELL AUTOMATICS, INC.
381 BUELL RD
ROCHESTER, NY 14624**

TITLE OF DRAWING
RESTORATION PLAN

PROJECT NO.
16059

DRAWING NO.
EN-4