SCANNED

Monitoring and Performance Report for the Modified Stabilization Plan

SL = Cerchione

General Chemical Corporation
91 133 – 135 Leland Street
Framingham, Massachusetts

MADEP RTN 3 - 19174
EPA ID No. MAD019371079

FEBRUARY 25, 2008

WEB ENGINEERING ASSOCIATES, INC.
104 Longwater Drive, Norwell, MA 02061 Phone:781-878-7766 Fax: 781-878-8004

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February 25, 2008

Mr. Jeffery Chormann
Massachusetts Department of Environmental Protection
One Winter Street
Boston, Massachusetts 02108

RE: Monitoring and Performance Report for the Modified Stabilization Plan
General Chemical Corporation
133-135 Leland Street; Framingham, MA
MADEP RTN 3-19174; EPA ID No. MAD019371079
Web File No. 04-E-005

Dear Mr. Chormann:

Web Engineering Associates, Inc. (Web Engineering) is pleased to submit this Monitoring and Performance Report for the Modified Stabilization Plan implemented at the General Chemical Corporation facility located at 133-135 Leland Street in Framingham, MA. This report has been prepared pursuant to the requirements set forth in the Massachusetts Contingency Plan (the MCP) 310 CMR 40.0000 and Section 8, Corrective Action Section of "Specific License Conditions" in the General Chemical Corporation Operating License 27B/2006. The enclosed copies are for your files. If you have any questions or desire any additional information, please do not hesitate to contact our office at your convenience.

Very truly yours,
Web Engineering Associates, Inc.

Jonathan A. Aisner, LSP
Senior Project Manager

William E. Baird, P.E., LSP
President

WEB/JAA/jaa

Enclosure: Monitoring and Performance Report

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Ms. Patricia Donahue/ Mr. Nihar Mohanty, MassDEP
Mr. Leon Lataille, MWRA
Mr. Dennis Gombetti, Town of Framingham
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mw:aisner/GCC/pmr2pi/04e005/02.25.08

MONITORING and PERFORMANCE REPORT
for the
MODIFIED STABILIZATION PLAN

GENERAL CHEMICAL CORPORATION
133 – 135 LELAND STREET
FRAMINGHAM, MASSACHUSETTS

MADEP RTN 3 - 19174

EPA ID No. MAD019371079

Submitted by:

General Chemical Corporation
133 – 135 Leland Street
Framingham, Massachusetts 01702

Prepared by:

Web Engineering Associates, Inc.
104 Longwater Drive
Norwell, Massachusetts 02061
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February 25, 2008

MONITORING AND PERFORMANCE REPORT
FOR THE MODIFIED STABILIZATION PLAN

GENERAL CHEMICAL CORP
133-135 LELAND STREET
FRAMINGHAM, MA

MADEP RTN 3 – 19174
EPA ID No. MAD019371079

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MONITORING AND PERFORMANCE REPORT

GENERAL CHEMICAL CORPORATION
133 – 135 LELAND STREET
FRAMINGHAM, MASSACHUSETTS
RTN 3 – 19174
EPA ID No. MAD019371079

1.0 INTRODUCTION

1.1 Objective of Report

Web Engineering Associates, Inc. (Web Engineering), as the professional engineering company for General Chemical Corporation (GCC), has prepared the following Monitoring and Performance (MAP) Report for the Modified Stabilization Plan. The objective of this document is to present relevant information with respect to the site activities being implemented to address petroleum hydrocarbon and volatile organic compound impacts to the groundwater at and adjacent to the GCC facility (hereinafter referred to as "the Site"). This MAP status report summarizes the construction and start-up, and describes the operation, maintenance and monitoring of the groundwater recovery and treatment systems that are in operation to address petroleum hydrocarbon and volatile organic compound impacts to the groundwater at and adjacent to the Site. This MAP status report also includes a description of the groundwater and surface water detection monitoring program implemented in conjunction with the groundwater recovery and treatment system, including relevant information with respect to the gauging, sampling and analytical testing of the groundwater and surface water at and adjacent to the Site.

1.2 Reporting Requirements

This MAP Report has been prepared pursuant to the requirements set forth in the Corrective Action Section (Section I.B[8]) of the General Chemical Corporation Operating License (27B/2006) and the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. This is the first combined report, covering both the Detection Monitoring Program and the System Performance Status reporting requirements of MassDEP.

1.3 Scope of Work

This document has been prepared based on field and laboratory information and data obtained during site activities performed at the Site from December 31, 2006 through November 30, 2007. The following is a summary of the tasks completed during the site activities performed by Web Engineering:

- Obtaining and assimilating information regarding Site characteristics including (but not limited to) physical location and description of the Site, area population and land use patterns, Site hydrogeology and local and regional environmental and ecological receptors, and environmental release history;

- Redevelopment, resurveying, gauging, sampling and analytical testing of twenty-five existing groundwater monitor wells;

- Installation, survey, development, gauging and sampling of eight groundwater recovery wells;

- Inspection, operation, maintenance and monitoring of two groundwater recovery and biological/GAC treatment systems;

- Application of remedial additives including microbes, nutrients and biocatalyst activator, to the biological treatment systems;

- Hydrologic monitoring including groundwater gauging to determine groundwater levels and the presence or absence of light non-aqueous phase liquid (LNAPL) and/or dense non-aqueous phase liquid (DNAPL), and groundwater flow impacts;

- Evaluation of environmental release and response action impacts to sensitive environmental receptors including the MWRA Aqueduct, wetlands, drainage ditch, Course Brook, the Woodrow Wilson School, adjacent residences and other nearby surface and shallow subsurface receptors;

- Sampling and analytical testing of water samples obtained from the treatment systems to determine the efficacy of the groundwater recovery and treatment program;

- Sampling and analytical testing of groundwater and surface water to evaluate the reduction of constituents of concern within the surface and subsurface waters of the Site;

- Summary of findings and conclusions and presentation in this groundwater Performance Monitoring Report.

1.4 Remedial Action Goals

Web Engineering implemented a groundwater remediation program utilizing bioremediation to reduce the concentrations of constituents of concern in the groundwater (and surface water) at the Site. The groundwater stabilization and recovery and biological treatment system was implemented to effectively reduce the concentrations of constituents of concern to levels whereby a Permanent Solution is achieved and a level of No Significant Risk to health, safety, public welfare and the environment exists. The design of the groundwater stabilization and recovery and treatment system is based on the down gradient recovery of impacted groundwater (through a series of shallow and deep overburden aquifer recovery wells), treatment of the impacted groundwater in a series of groundwater recovery and aerobic/anaerobic biological treatment tanks using Granular Activated Carbon (GAC) vessels as the last bioreactor, and subsequent up-gradient subsurface re-injection of treated groundwater (though a series of injection trenches [i.e. galleys] and wells), thereby creating a closed-loop system. The groundwater stabilization and recovery and treatment system was designed to capture (stabilize) and reduce the concentrations of constituents of concern within the entire subsurface volatile organic compound (VOC) plume in a more timely and cost-effective manner than by more traditional or conventional methods, such as air stripping. It is contended that implementation of the groundwater stabilization and recovery and treatment system: (1) accelerates the reduction of constituents of concern in the shallow and deeper overburden groundwater aquifers via the creation of a treatment system that not only reduces constituent concentrations within the primary (*ex situ*) treatment units (i.e. the bioreactors) but also reduces constituent concentrations *in situ* through inoculation of the subsurface with VOC-degrading microbes (thus creating groundwater treatment throughout the entire site); (2) continues to mitigate and prevent significant release migration to offsite properties (e.g. drainage ditch, Course Brook, wetlands, etc.); and (3) enhances the degradation of constituents of concern within the offsite areas of concern including the drainage ditch and Course Brook.

Web Engineering identified two general areas that require remedial actions as described in the Modified Stabilization Plan dated March 31, 2004:

Area 1 is located to the northeast of the MWRA aqueduct (and Right-of-Way), generally within the GCC facility boundaries and slightly beyond – this Area is referred to as the *Onsite* Warehouse and Yard Area;

and

Area 2 is located to the south and southwest of the MWRA aqueduct, generally within the vicinity of the south side of the MWRA aqueduct Right-of-Way, and within and near the drainage ditch – this Area is referred to as the *Offsite* Garage and Abandoned Field Road Area.

Groundwater stabilization and recovery, treatment, and re-injection are implemented separately in each of these areas. That is, Area 1 and Area 2 have a separate and distinct set of recovery wells, sheltered and secured *ex situ/in situ* biological treatment systems, injection trenches and injection wells, and groundwater monitoring wells.

1.5 Relevant Contacts

1.5.1 Responsible Party

The facility, identified under RTN 3-19174, is currently owned by General Chemical Corporation.

General Chemical Corporation
133 – 138 Leland Street
Framingham, MA 01702
Phone: 508-872-5000
Fax: 508-875-5271
Contact: Mr. Roy Swartz; Manager of Regulatory Compliance

1.5.2 Licensed Site professional

Web Engineering Associates, Inc. is the current professional engineering company for General Chemical Corporation. Relevant Web Engineering personnel may be contacted as follows:

Web Engineering Associates, Inc.
104 Longwater Drive
Norwell, MA 02061
Phone: 781-878-7766
Fax: 781-878-8004

Contacts: Mr. William E. Baird, P.E., LSP; President
Mr. Jonathan Aisner, LSP; Senior Project Manager
Mr. Bruce Oborsky; Project/Field Technician

1.5.3 Other Persons

Implementation of the various site activities as described in this Performance Monitoring Report, including system inspection, operation and/or maintenance, etc., will be performed by and/or under the supervision of Web Engineering and/or General Chemical personnel as appropriate. Web Engineering's personnel may be contacted as indicated in Section 1.5.2. Outside vendors (i.e. drillers, construction personnel, analytical testing laboratories, risk assessors, etc.) will be recommended by Web Engineering and will perform the work subject to the approval of General Chemical Corporation.

1.6 Permitting

Implementation of the site activities followed the Massachusetts Department of Environmental Protection (MassDEP) approval of the *Modified Stabilization Plan* dated March 31, 2004. Preparation and submittal of the *Modified Stabilization Plan* was in accordance with the requirements set forth in the Massachusetts Department of Environmental Protection (MassDEP) Decision with Modifications dated November 2, 2000, Section I B of (6)(i)(1) of the General Chemical Corporation Operating License in effect at the time (27B/95), and Section 12.2 Stabilization Measures of the MassDEP April 20, 1999 Decision with Modifications. This Performance Monitoring Report is submitted in accordance with the requirements of the Corrective Action Section (Section I.B [8]) of the current General Chemical Corporation Operating License (27B/2006) and in accordance with the MassDEP correspondence dated June 21, 2004. Dig Safe was notified and a Dig Safe Permit was obtained prior to installation of soil borings, groundwater wells and construction of the stabilization/treatment system. The groundwater treatment system discharges to the subsurface at locations that are hydrologically up-gradient of the groundwater recovery/treatment system influent, accordingly a discharge permit is not required. No other permits are required for the groundwater treatment systems or assessment activities at the Site, and Web Engineering is not aware of any additional permits that may be required at this time. The Town of Framingham has been advised regarding the activities at the Site, and at this time has determined there is no need of any special authorizations or permits required by the Town of Framingham.

2.0 GENERAL SITE INFORMATION

2.1 SITE LOCATION AND DESCRIPTIION

The Site consists of approximately 12 acres of land situated within a mixed residential and industrial area of Framingham, Massachusetts. It is located on the United States Geological Survey (U.S.G.S.) Topographic Map Series Framingham, Massachusetts 7.5 Minute Quadrangle (dated 1987), at approximately 42°16'23" North Latitude and 71°24'00" West Longitude. The approximate U.T.M. coordinates are 302,000 Meters East and 4,682,400 Meters North. The general location of the Site is depicted in Figure 1 – the Site Location Map. The General Chemical "Site" consists of the GCC facility as well as properties affiliated with the MWRA (Sudbury Aqueduct), CSX Transportation, Exelon, residential properties located on Leland Street adjacent to and near the General Chemical Corporation facility, areas to the east (approaching the Woodrow Wilson School), a vegetated wetlands area located to the south of the GCC facility and an unnamed drainage ditch and Course Brook, also located to the south of the GCC facility.

The GCC portion of the Site is located on the south side of Leland Street at Map 1040, Block 214, Lots 3A and 4 of the Town of Framingham Assessor's Maps. General Chemical Corporation is a Resource Conservation and Recovery Act (RCRA) Licensed Hazardous Waste Facility. Waste management operations at the GCC facility currently include the storage and repackaging of virgin solvents and the storage and consolidation of non-flammable waste oils and other regulated hazardous and non-hazardous materials and wastes.

As depicted in Figure 2 – the Site Plan, several properties comprising the "Site" are located to the south of the GCC facility. The CSX Transportation property is located immediately to the south of the GCC facility and beyond, and the MWRA-owned Sudbury Aqueduct crosses the CSX property approximately 100 feet to the south of the GCC facility. The Sudbury Aqueduct is considered a potential backup water supply conduit to the City of Boston and is not currently in use.

A substantial portion of the Site is comprised of wetlands, with boundaries located at approximately 200 feet and 350 feet to the south of the GCC facility. A man-made, unnamed surface water drainage ditch is located to the southwest of the facility. This drainage ditch flows to the south where it meets Course Brook.

Other properties of interest addressed in this Performance Status Report include the GCC office building and an adjacent car wash located on the north side of Leland Street and across from the facility, nearby residences and the Woodrow Wilson School located to the northeast of the facility.

2.2 Site Hydrogeology

2.2.1 Geologic Characteristics

The topographic configuration of the Site (and vicinity) is depicted in Figure 1. The Site is situated in a region of relatively level topography with gently rolling hills of relatively low relief to the north and southeast. Topographic elevations remain rather constant to the west and east. The general regional topographic gradient in this region is to the east-northeast, with local variations, while the local topography slopes gently to the south toward a nearby wetland associated with Course Brook, located approximately 0.5 mile to the southeast.

The regional geology is characterized by unconsolidated coarse granular fill overlying strata of sand, interbedded sand and silty sand and dense, glacial till. Soil boring data obtained in 2001 indicate a local geology comprised of approximately three to ten feet of granular fill material (fine-coarse sand, sand and gravel) overlying twenty to (approximately) fifty feet of interbedded sand and silt, greater than forty feet of clay and silt, and up to fifty feet of glacial till. Bedrock, consisting of pink to gray, fine to coarse-grained, moderately fractured to competent granodiorite, is encountered at depths greater than (approximately) forty feet below grade surface.

2.2.2 Hydrologic Characteristics

The depth to groundwater was recently measured by Web Engineering in several groundwater monitoring wells. Groundwater is encountered at depths of between 1.05 and 1.08 feet below grade surface (in monitor well CDW-11 and the upper Injection Trench) to nearly 12.01 feet below grade surface (at monitor well GZ-6 located to the northeast of the facility, near the school). At Recovery Well RW-7, the depth to groundwater was greater than 30 feet below grade surface. The average depth to groundwater at the Site is generally between three to six feet below grade surface. Historically, groundwater levels are high during the spring or "wet season", and lower during late summer and fall or "dry season".

Previous investigations conducted by GZA GeoEnvironmental, Inc. (GZA) identified two distinct overburden groundwater zones: a shallow, upper groundwater zone consisting of sand deposits with high permeability, and a deeper, lower groundwater zone consisting of sand-silt-clay deposits with lower permeabilities. The groundwater gradient (flow direction) in the upper sandy groundwater zone is generally south to southeast.

The groundwater gradient (flow direction) in the lower silty groundwater zone is roughly north to south based on prior investigations conducted by GZA. In an unconfined aquifer, such as found at the Site, the direction of groundwater flow is in a down gradient direction, generally perpendicular to the groundwater contours. The gently sloping groundwater gradient at the Site indicates a relatively low groundwater flow velocity. Groundwater velocity has been estimated to be approximately 0.14 feet/day. Recent hydrogeologic data is represented in Figure 8.

2.2.3 Natural Resources and Environmental Receptors

As previously mentioned, a west to east-trending Massachusetts Water Resource Authority (MWRA) (Sudbury) aqueduct bisects the Site, and is located approximately 100 feet to the south of the GCC facility. The aqueduct is considered by the MWRA as a potential backup water supply conduit for the City of Boston; however it is presently not in use and has not been used for many decades. Vegetated wetlands are situated within the Site, with boundaries located approximately 200 and 350 feet to the south of the GCC facility. An unnamed, northwest to southeast-trending man-made surface water drainage ditch is also located approximately 250 feet to the southwest and south of the GCC facility.

2.2.3.1 Course Brook

The drainage ditch flows to Course Brook, a roughly southwest to northeast trending surface water body located approximately 0.5 mile to the south of the GCC facility. Course Brook is a tributary of Fisk Pond, located approximately 1.5 miles to the northeast and hydrogeologically downgradient of the GCC facility. Course Brook has been moderately impacted by the release of OHM at the GCC facility, although these impacts have dissipated during this reporting period. The location of Course Brook is depicted in Figure 2.

2.2.3.2 Residences

There are several residences located to the southeast and northeast of the GCC facility. The residences to the northeast are situated hydrogeologically up gradient to cross gradient of the GCC facility. The residences to the southeast are situated hydrogeologically down gradient to cross gradient of the GCC facility. The location of the residences is depicted in Figure 2.

2.2.3.3 Woodrow Wilson School

The Woodrow Wilson School is located approximately 130 feet to the northeast of the GCC property. The school is situated hydrogeologically up gradient to cross gradient of the GCC facility. A groundwater monitor well (GZ-6) is located approximately seven feet from the southeast corner of the school. Recent groundwater testing has indicated that low levels of constituents of concern are present in the groundwater at this monitor well. The location of the Woodrow Wilson School is depicted in Figure 2.

3.0 ENVIRONMENTAL RELEASE BACKGROUND

3.1 Release History

According to GCC there have been numerous documented releases from circa 1981. The releases were generally the result of surface spills, overfilling of tanks and storage vessels. All documented releases were contained on or within impervious surfaces/structures. It is assumed that contamination at the site is related to routine solvent handling and recycling activities in the 1960's and 1970's. Much of the work area was not equipped with impervious containment prior to the 1980's.

3.2 Environmental Media and Constituents of Concern

The primary constituents of concern at the GCC site include chlorinated and aromatic VOCs, principally: Tetrachloroethylene (PCE), Trichloroethylene (or TCE), 1,1,1-Trichloroethane (or TCA). The primary degradation constituents of concern (of the primary constituents) include: 1,1-Dichloroethene, *trans-* and *cis-*1,2-Dichloroethene, 1,1- Dichloroethane and Vinyl Chloride. Other detectable constituents of concern include Methylene Chloride, 1,1,2-Trichlorotrifluoroethane and oil and petroleum solvents.

These constituents have penetrated the vadose and saturated zones of the upper soil and groundwater zone (i.e. sand zone), through the lower soil and groundwater zone (silty zone), to the top of the more competent and less permeable glacial till layer. These constituents of concern have been detected in the groundwater as separate phase products (i.e. light non-aqueous phase liquids or LNAPL and dense non-aqueous phase liquids or DNAPL) and as dissolved products that have the potential to migrate down gradient within the upper and lower groundwater zones. These constituents have been observed to discharge at low concentrations, within the surface waters of the Drainage Ditch which leads to Course Brook.

Low levels of constituents of concern have been detected in monitor well GZ-7R. It is believed that GZ-7R is damaged and plans have been made to decommission the well.

3.3 Previous Response Action History

Numerous studies have been performed at the Site since circa 1992 by Environmental Resource Management, Inc. (ERM), CDW Consultants, Inc., (CDW) and GZA GeoEnvironmental, Inc. (GZA). These studies were essentially soil and groundwater assessments directed at identifying hydrogeological conditions and determining the nature and extent of impacts to the subsurface media at the Site. An Imminent Hazard Evaluation and an Ecological Characterization were performed by GZA in February 2001 and August 2001, respectively and it was concluded that an Imminent Hazard to the sensitive ecological receptors in the nearby wetlands areas did not exist. An MCP-defined Critical Exposure Pathway potentially existed at a residential property located at 91 Leland Street, the result of contaminant plume migration in the vicinity of the residence and the detection of VOCs in indoor air samples collected at the residence. An Immediate Response Action (IRA) was implemented to modify an existing crawl space ventilation system, followed by a regimen of operational and air sampling. The residence was ultimately vacated. Supplemental site assessments were performed by GZA to determine a course of action to remediate the contaminant plumes identified at the Site. In December 2001 GZA submitted a *Supplemental Assessment Plan and Stabilization Measure Report* intended to present the findings of additional groundwater assessment and contaminant plume delineation, formulate an upgraded conceptual site model for the purpose of selecting an appropriate response action, and generating a preliminary design and cost-benefit analysis for an alternative "stabilization measure".

Web Engineering is currently implementing a Modified Stabilization Plan designed to recover and treat impacted groundwater. The operational performance of the groundwater recovery/treatment system was described in the Performance Status Report No. 1 dated April 9, 2007.

3.4 Significant Changes in Site Conditions

Web Engineering observed several significant changes in the hydrogeological and/or environmental conditions at the Site since the previous reporting period October 2005 through November 2006. During this reporting period Web Engineering observed:

(1) that the layer of dense non-aqueous phase liquid (DNAPL) continues to be present in groundwater monitor well WMW-8D;

(2) that the layer of light non-aqueous phase liquid (LNAPL) in groundwater proximate to monitor well WMW-6 has been eliminated;

(3) a reduction in the concentration of total VOCs in fifteen groundwater monitor/groundwater recovery wells;

(4) an increase in the concentration of total VOCs in eleven groundwater monitor/groundwater recovery wells;

(5) a ground water mound may be present at Galley Trench # 1;

(6) possible groundwater injection at Galley Trench #2 that may be influencing the presence of constituents of concern in the groundwater at monitor well GZ-6, adjacent to the Woodrow Wilson School;

(7) a reduction in the concentrations of total volatile organic compounds in the groundwater at the adjacent residences; the concentrations of the individual constituents of concern are currently less than the MCP Method 1 groundwater category GW-2 risk standards;

(8) a reduction in the concentrations of total volatile organic compounds in Course Brook;

Details of the changes will be discussed throughout this status report.

4.0 RESPONSE ACTION PERFORMANCE AND MONITORING

4.1 Treatment System Construction and Operation

4.1.1 Onsite Warehouse and Yard

This area is located to the north and northeast of the MWRA aqueduct (and Right-of-Way), generally within the GCC facility boundaries and slightly beyond, as depicted in Figure 2. Groundwater in this area has been impacted by chlorinated and non-chlorinated VOCs, from historical releases occurring at the Site. A closed-loop groundwater stabilization and recovery and biological treatment system, consisting of groundwater recovery wells, an *ex situ/in situ* bioremediation system and a series of groundwater recharge trenches and injection wells was installed to reduce the concentrations of constituents of concern in the upper and lower groundwater zones in this area. The design of the groundwater recovery/treatment system is based on the down gradient recovery of impacted groundwater through a series of shallow and deep aquifer recovery wells, treatment of the groundwater in a series of aerobic/anaerobic treatment tanks, Granular Activated Carbon (GAC) vessels, that also act as bioreactors, and re-injection to the subsurface through a series of injection trenches, thereby creating the closed-loop system. A series of groundwater injection wells serve to augment the *in situ* bioremediation process through direct inoculation of remedial additives (microbes, nutrients and biocatalyst activator). The configuration of the groundwater recovery and treatment system within the onsite warehouse and yard area is depicted in Figure 3. The As-Built construction of the Treatment System is depicted in Figure 5.

Treatment system construction was completed in September 2005. The Onsite groundwater treatment system, located within the GCC warehouse, is constructed of three Bioreactors placed in tandem, designated as Bioreactor 1 (Bio-1), Bioreactor 2 (Bio-2) and Bioreactor 3 (Bio-3). Bioreactor 1 is a vertical, 1,000 gallon polyethylene tank. This tank is utilized as the first biotreatment. vessel and may also be utilized as a still or separation tank, designed to capture any light or dense non-aqueous phase liquid (LNAPL or DNAPL) while concurrently commencing the biodegradation process. This tank receives recovered groundwater from groundwater recovery wells RW-1, RW-2, RW-3 and RW-4. Flow recovery from each well to Bioreactor 1 is measured with individual flow meters and recorded during routine monitoring activities. A biocatalyst generator (CoGen) is connected to Bioreactor 1. The CoGen consists of two plastic 55 gallon drums that generate a non-toxic/non-pathogenic liquid catalyst and essential enzymes and nutrients essential for optimum biological

activity within each bioreactor. Remedial additives, consisting of a proprietary blend of exogenous, naturally occurring, non-pathogenic VOC-degrading microbes of the *Archaea* domain, nutrients and the liquid biocatalyst are added to Bioreactor 1. The second tank, designated as Bioreactor 2 is a vertical, 1,000 gallon polyethylene tank. Bioreactor 2 is an aerobic/anaerobic bioreactor designed to increase retention time and thus more efficient biodegradation of constituents of concern within the recovered groundwater. Bioreactor 3 is a vertical, 800 gallon capacity stainless steel tank designed to facilitate further degradation of constituents of concern. Each Bioreactor is fitted with a sampling port to facilitate obtaining a sample of Bioreactor influent and effluent. A constant supply of diffused air may be pumped into the bottom of each Bioreactor to provide oxygen to the aerobic microbes.

The treated groundwater is pumped through a particulate filtration system that reduces or eliminates the presence of oxidized metals, such as iron and manganese, and other inorganic particulate material from the treatment system. This filtration system is constructed of a series of four 10 micron bag filters and placed between Bioreactor 2 and Bioreactor 3.

Two, in-sequence, 55 gallon capacity Granular Activated Carbon (GAC) vessels receive effluent from Bioreactor 3 and the bag filters. The GAC vessels represent the final stage of groundwater treatment where molecules are sorbed to GAC and the microbes degrade and desorb the molecules. This process is repeated many times. The GAC vessels, designated as CV-1 and CV-2, provide sites for microbial treatment of the impacted groundwater before being discharged to the subsurface. The carbon vessel system is fitted with a by-pass in the event carbon treatment becomes plugged, in which case the effluent is directly discharged to the subsurface. This treatment system is also fitted with two 55 gallon capacity vapor-phase carbon vessels, capable of ventilating low concentrations of volatile compounds to the atmosphere. This venting system is fitted with a sampling port to qualitatively measure the output of volatile organic compounds with a photoionization detector, flame ionization detector or similar monitor. The venting system is currently not used.

The treated groundwater is discharged to the subsurface through an array of four injection wells and two injection galley trenches. Effluent flow from each injection well and galley is measured with individual flow meters and recorded during routine monitoring activities. The injection wells are designated as IW-1, IW-2, IW-3 and IW-4 and the galley trenches are designated as Galley Trench 1 and Galley Trench 2. The injection systems are installed up gradient of the

groundwater recovery wells and areas of critical groundwater impact. A description of the installation of the recovery and injection wells is presented in Section 4.2. Galley Trench 1, installed to the northwest of the warehouse, between the warehouse and the garage, is an array of three separate injection trenches, each approximately 15 feet in length, 5 feet in width and set at a depth of approximately 4-6 feet below grade surface. Four 4' X 4' concrete galleys (1-4, 5-8 and 9-12) were installed within each trench. Galley Trench 2, installed to the east of the warehouse, is a single trench, approximately 40 feet in length, five feet in width and set at a depth of approximately 4-6 feet below grade surface. Ten 4' X 4' concrete galleys (13-22) were installed within this trench. The trenches surrounding the concrete galleys were backfilled with 1 1/2 inch washed stone to allow for even distribution of treated groundwater that is discharged to the subsurface. The galleys are covered with a geotextile fabric barrier to prevent infiltration of fine particulate materials from the surface. Figure 7 depicts the details of the galleys and trenches installed within the onsite treatment system.

4.1.2 Offsite Garage/Abandoned Field Road Area

This area is located to the south and southwest of the MWRA aqueduct (and Right-of-Way), outside of the GCC facility boundaries, as depicted in Figure 2. Groundwater in this area has also been impacted by chlorinated and non-chlorinated VOCs, from historical releases occurring at the Site. A second closed-loop groundwater stabilization and recovery and biological treatment system, consisting of groundwater recovery wells, an *ex situ/in situ* bioremediation system and a series of groundwater recharge trenches and injection wells was installed to reduce the concentrations of constituents of concern in the upper and lower groundwater zones in this area. The design and construction of this groundwater recovery/treatment system is identical to that of Onsite Warehouse and Yard treatment system. The configuration of the groundwater recovery and treatment system within the offsite garage and abandoned field road area is depicted in Figure 4. The As-Built construction of the Treatment System is depicted in Figure 6. The Offsite treatment system construction was completed in October 2006. The Offsite groundwater treatment system is located within a small building located on the acquired GCC property to the west of the unnamed drainage ditch.

The offsite groundwater treatment system is also constructed of three Bioreactors designated as Bioreactor 1 (Bio-1), Bioreactor 2 (Bio-2) and Bioreactor 3 (Bio-3). Bioreactor 1 is utilized as the first biotreatment vessel and

can be utilized as a still or separation tank, designed to capture any LNAPL or DNAPL while concurrently commencing the biodegradation process. This tank receives recovered groundwater from groundwater recovery wells RW-5D and RW-7. Bioreactor 2 is an aerobic/anaerobic bioreactor designed to increase retention time and thus more efficient biodegradation of constituents of concern within the recovered groundwater. Bioreactor 3 is designed to facilitate further aerobic/anaerobic degradation of constituents of concern. Each Bioreactor is fitted with a sampling port to facilitate obtaining a sample of Bioreactor influent and effluent fluids. A constant supply of diffused air may be pumped into the bottom of each Bioreactor to provide oxygen to the aerobic microbes.

The treated groundwater is pumped through a particulate filtration system that is constructed of a series of four 10 micron bag filters and placed between Bioreactor 2 and Bioreactor 3. Two, in-sequence, 55 gallon capacity Granular Activated Carbon (GAC) vessels receive effluent from Bioreactor 3 and the bag filters. The GAC vessels represent the final stage of groundwater treatment before discharge to the subsurface. The GAC vessels, designated as CV-1 and CV-2, provide sites for microbial treatment of the impacted groundwater before being discharged to the subsurface. The carbon vessel system is fitted with a by-pass in the event carbon treatment becomes plugged in which case the effluent is directly discharged to the subsurface. This treatment system is also fitted with two 55 gallon capacity vapor-phase carbon vessels, capable of ventilating low concentrations of volatile compounds to the atmosphere. This venting system is fitted with a sampling port to qualitatively measure the output of volatile organic compounds with a photoionization detector, flame ionization detector or similar monitor. This system is not currently operating.

The treated groundwater is discharged to the subsurface through an array of two injection wells (designated as IW-5 and IW-6) and one injection galley trench (designated as the Recharge Trench). The injection wells are located at each end of the Recharge Trench. Effluent flow from each injection well and galley is measured with individual flow meters and recorded during routine monitoring activities. These injection systems were installed up gradient of the groundwater recovery wells and areas of critical groundwater impact. A description of the installation of the recovery and injection wells is presented in Section 4.2. The Recharge Trench, installed to the northwest of the biotreatment building, is a long trench, approximately 105 feet in length, 10 feet in width and set at a depth of approximately 4-6 feet below grade surface.

Approximately 6 inches of ¾ inch washed stone was placed at the bottom of the trench. A 4" diameter perforated PVC pipe was placed on the stone. The pipe was covered with ¾ inch washed stone to one foot below grade surface. The washed stone allows for even distribution of treated groundwater that is discharged to the subsurface. The stone in the Recharge Trench is covered with a geotextile fabric barrier to prevent infiltration of fine particulate materials from the surface. Figure 7 depicts the details of the Recharge Trench installed within the Offsite treatment system.

4.2 Well Installation

4.2.1 Groundwater Monitor Wells

Web Engineering installed ten groundwater monitor wells at the Site between August and December 2005. These wells were installed in strategic locations throughout the Site for the purpose of more adequately delineating the shallow and deep contaminant plumes, monitoring the groundwater for constituents of concern and remedial additives, and to accurately define the hydrologic conditions at the Site. The existing wells have been and will continue to be utilized throughout the site activities.

The groundwater monitor wells were completed as 2" diameter wells constructed of Schedule 40 PVC pipe, set between depths of 5 to 55 feet below grade surface (bgs), encompassing both shallow and deep aquifers. A clean environmental sand filter pack was placed in each well annulus between the well and the borehole to a depth of approximately one foot above the slotted PVC screen. Bentonite pellets were placed above the environmental sand pack and hydrated to form a shallow subsurface seal. Each well annulus was then filled to the surface with environmental sand or clean cuttings prior to well completion. Each well was fitted with a locking expansion plug and protective roadbox, cemented in place. Each groundwater monitor well was developed in order to remove fine particulates that may have become entrapped in the well or well screen. Well development was performed using surge block and overpumping methods and all development water was stored on site in 55 gallon drums for processing through the groundwater treatment system. Following well development, groundwater monitor wells were surveyed for well elevation and gauged for groundwater table levels and for the presence of LNAPL and/or DNAPL.

Eight additional groundwater monitoring wells were installed within Area 1, the Warehouse and Yard area. The wells were designated as WMW-1S, WMW-2S, WMW-2D, WMW-3, WMW-4, WMW-5, WMW-6 and WMW-7. Well completion data is further described in Table 1. The locations of these wells are depicted in Figure 2 and Figure 3. These wells were specifically installed for the purpose of: (1) confirming the presence and extent of and determining the hydrologic characteristics of the groundwater divide identified by previous consultants.; (2) determining and monitoring the effects of the groundwater recovery and recharge on the groundwater divide in both the upper and lower aquifers; (3) ensuring the maintenance of hydraulic control during groundwater recovery and treatment through a program of routine groundwater gauging and analytical testing for constituents of concern and remedial additives; and (4) monitoring for the migration of constituents of concern toward the GCC office and the adjacent car wash.

Two additional groundwater monitoring wells were installed within Area 2, the Garage and Abandoned Field Road area. The wells were designated as WMW-8S and WMW-8D. Well completion data is further described in Table 1. The locations of these wells are depicted in Figure 2 and Figure 4. These wells were specifically installed for the purpose of: (1) ensuring the maintenance of hydraulic control during groundwater recovery and treatment through a program of routine groundwater gauging and analytical testing for constituents of concern and remedial additives; and (2) monitoring for the migration of constituents of concern toward the wetlands and to the south toward Course Brook.

4.2.2 Groundwater Recovery Wells

Web Engineering installed eight groundwater recovery wells at the Site between August 2005 and June 2006. The groundwater recovery well locations varied depending upon access to the designated well installation areas and in consideration of proximity to existing Site features such as structures and utilities and health and safety of field and operational personnel. The wells were installed in areas that facilitate groundwater capture, and mitigate and/or prevent migration of constituents of concern to both onsite and offsite sensitive environmental receptors such as the drainage ditch, the wetlands, the MWRA aqueduct and Course Brook.

The groundwater recovery wells were completed between depths of 5 to 40 feet bgs, contiguously encompassing both shallow and deep aquifers. All wells, with the exception of RW-3, were completed as 6" diameter wells constructed of Schedule 40 PVC pipe. Recovery well RW-3 was completed with stainless steel pipe. A

clean environmental sand filter pack was placed in each well annulus between the well and the borehole to a depth of approximately one foot above the screen. Bentonite pellets were placed above the environmental sand pack and hydrated to form a subsurface seal. Each well annulus was then filled to surface with environmental sand or clean cuttings prior to well completion. Each well was fitted with a locking expansion plug and protective roadbox/utility box, cemented in place. Each groundwater recovery well was developed in order to remove fine particulates that may have become entrapped in the well or well screen. Well development was performed using surge block and overpumping methods and all development water was stored on site in 55 gallon drums for processing through the groundwater treatment system. Following well development, groundwater monitor wells were surveyed for well elevation and gauged for groundwater table levels and for the presence of LNAPL and/or DNAPL. Recovery well RW-5S was damaged during installation and was not able to be adequately developed due to significant siltation and has not been used during site activities. Recovery well RW-6 has not been utilized during site activities due to continuous siltation. RW-5S and RW-6 may be replaced in the future if deemed necessary. Depths of the recovery wells varied dependent upon field observations, but were generally installed to depths encompassing both the shallow and deeper overburden zones of groundwater impact. Well completion details are presented in Table 1.

A centrifugal pump was installed at the bottom of each recovery well. Electrical and groundwater recovery components were installed within a nearby utility trench from the wellhead to the respective treatment area. A utility distribution manhole, complete with metal cover, was installed around the top of each recovery well for access during operation, maintenance and monitoring of the system. Typical recovery well details are depicted in Figure 7.

Four groundwater recovery wells (RW-1, RW-2, RW-3 and RW-4) are functioning within Area 1, the Garage and Warehouse area. Two groundwater recovery wells (RW-5D and RW-7) are functioning within Area 2, the Garage and Abandoned Field Road area. The location of these recovery wells are depicted in Figures 2, 3 and 4. The primary function of the recovery wells is to intercept and recover the majority of the groundwater with elevated concentrations of constituents of concern. Groundwater recovery zones include both the upper and lower sand/silt aquifers.

4.2.3 Groundwater Injection Wells

Web Engineering installed six groundwater injection wells (IW-1, IW-2, IW-3, IW-4, IW-5 and IW-6) at the Site between August and December 2005. The groundwater injection well locations also varied depending upon access to the designated well installation areas and in consideration of proximity to existing Site features such as structures and utilities and health and safety of field and operational personnel. The injection wells were installed to facilitate discharge of treated groundwater in the event discharge through the recharge trenches is temporarily infeasible due to high groundwater. The injection wells were also designed to provide the impacted areas of the subsurface with highly treated groundwater containing microbes and nutrients to further augment the biological degradation of the constituents of concern. Additionally, the injection wells serve as remedial additive inoculation points to further augment biodegradation of constituents of concern within the subsurface. The injection wells were installed in proximity to the recharge trenches. Injection wells IW-1, IW-2, IW-3 and IW-4 were installed within Area 1 - the Warehouse and Yard area. Injection wells IW-5 and IW-6 were within Area 2 - the Garage and Abandoned Field Road area. Well completion details are presented in Table 1. The locations of the Injection Wells are depicted in Figures 2, 3, and 4.

A hydraulic connection between the injection wells and the groundwater recharge trenches enables the groundwater recharge system to accommodate the concurrent infiltration of treated groundwater to the subsurface through both the recharge trenches and the injection wells. The injection wells were installed upgradient of the recovery wells in order to: (1) flush impacted groundwater toward the recovery wells; and (2) re-distribute microbes and nutrients to more significantly impacted areas of the subsurface. These injection wells were continuously screened within both the upper and/or lower zones of subsurface impact and were fitted with interchangeable seals designed to accommodate active groundwater recharge through low-pressure injection or passive groundwater recharge through gravity flow.

4.3 System Start-Up and Testing

4.3.1 Onsite Warehouse/Yard Area

The onsite treatment system is designed to recover and treat impacted groundwater using enhanced bioremediation. The targeted source of the bio-treatment system is the volatile organic compound plume located beneath and

near the GCC warehouse and yard area. This bio-treatment was started and tested on October 27, 2005 and has operated on a continual basis with occasional stoppages for minor modifications and routine maintenance that were anticipated and described in previous system plans. The system, which included groundwater recovery from recovery wells RW-1, RW-2 and RW-4, initially ran for a period of approximately two weeks in order to test the efficacy of the system and establish equilibrium within the system itself. During initial start-up operations the system performed to specifications.

Chlorinated- and non-chlorinated compound-degrading microbes were added to the system beginning in December 2005.

During initial start-up operations recovery wells RW-1, RW-2 and RW-4 recovered groundwater at an average rate of 3 gallons per minute (gpm). Recovery well RW-3 was initially shut in for maintenance and while groundwater injection rates were monitored and adjusted.

The filtration system was online on November 1, 2005. During initial start-up operations the iron oxide filtration system performed to specifications.

The GAC vessels were put on line on November 1, 2005 and have remained on line since that time except for maintenance and replacement of GAC in the carbon vessels.

Groundwater injection into Injection Galley G-1 commenced on November 1, 2005. During initial start-up groundwater injection rates into Galley G-1 returned approximately 87,000 gallons of treated groundwater to the subsurface. Groundwater injection into Injection Galley G-2 commenced on November 4, 2005. During initial start-up groundwater injection rates into Galley G-2 returned approximately 71,000 gallons of treated groundwater to the subsurface.

Groundwater injection into the four injection wells (IW-1, IW-2, IW-3 and IW-4) did not occur during initial start-up and testing of the treatment system. Groundwater injection via Injection Well IW-3 commenced on March 28, 2006.

Table 2 presents the documented data associated with the initial start-up and testing of the onsite treatment system as well as system monitoring data through December 2007.

4.3.2 Offsite Garage/Abandoned Field Road Area

The offsite treatment system is designed to recover and treat impacted groundwater using enhanced bioremediation. The targeted source of this bio-treatment system is the volatile organic compound plume that has migrated offsite, beneath and beyond the adjacent CSX railroad tracks and the MWRA aqueduct. This bio-treatment was started and tested on October 17, 2006 and has operated on a continual basis with occasional stoppages for minor modifications and routine maintenance that were anticipated and described in previous system plans. This system, which included groundwater recovery from recovery wells RW-5D (deep) and RW-7, ran continually while testing the efficacy of the system and establish equilibrium within the system itself. The application of diffused air to the treatment system was not performed to minimize the production of iron oxide.

Chlorinated compound-degrading microbes were added to the system beginning in December 2006.

During initial start-up operations recovery wells RW-5D and RW-7 recovered groundwater at an average rate of 1 to 2 gpm.

The filtration system was online on October 17, 2006. During initial start-up operations of the offsite treatment system the iron oxide filtration system performed to specifications.

The GAC vessels were put on line on October 17, 2006 and have remained on line since that time.

Groundwater injection into the Injection Trench also commenced on October 17, 2006. During the month of October 2006 and initial start-up, groundwater injection rates into the Injection Trench returned approximately 69,500 gallons of treated groundwater to the subsurface.

Groundwater injection into the two offsite injection wells (IW-6 and IW-7) did not occur during initial start-up and testing of the treatment system.

Table 3 presents the documented data associated with the initial start-up and testing of the offsite treatment system as well as system monitoring data through December 2007.

4.4 Significant Changes to System Operations

During the initial treatment phase it was discovered that RW-3, a 6" PVC recovery well installed within a suspected DNAPL plume, had been partially dissolved by the solvents at a depth of approximately 20 feet bgs. This well was subsequently replaced in December 2005 with a stainless steel screen and on March 22, 2006 was placed on line.

RW-4 was not operational between October through December 2007. RW-4 was taken off line on October 26, 2007 in order to replace the pump and electrical components. RW-4 was placed back on line in January 2008.

Recovery Wells RW-5S and RW-6 are not operating. Recovery well RW-5S (shallow) is believed to have been damaged during installation and may require replacement. RW-6 is screened within a very fine silt stratum and has not been placed on line due to siltation that has plugged the well.

The application of diffused air to the treatment system bioreactors reduced the concentration of constituents of concern due to air stripping, however it also resulted in the enhanced production of iron oxide. The enhanced iron oxide production was found to clog the system filters and piping and therefore the application of diffused air was ceased.

There have not been any other significant changes to the Onsite or Offsite treatment system design or system operations since start commencement of the treatment systems.

5.0 PERFORMANCE MONITORING

5.1 Treatment System Inspection and Monitoring

5.1.1 Onsite Warehouse/Yard Area

The onsite recovery wells (RW-1, RW-2, RW-3 and RW-4) have been pumping/recovering groundwater at an average rate of between 0.81 and 4.82 gpm. Given current pumping rates (assumed to be constant for a given 24-hour period) and based on groundwater observations, the four recovery wells have overlapping cones of depression that appear to be effectively capturing the impacted groundwater down gradient of the property. The impacted groundwater has been pumped through the bioreactor tanks and carbon vessels, and re-injected upgradient on the GCC property through a series of injection galleys and injection wells. Routine maintenance and repairs to the system were expected

and performed accordingly during this reporting period. However, as previously mentioned RW-4 was not operational from October through December 2007. RW -4 was taken off line on October 26, 2007 in order to replace the pump and electrical components. RW -4 was placed back on line in January 2008.

Recovery well RW-1 has recovered an estimated total of 834,945 gallons of impacted groundwater as of December 31, 2007 (total recovery estimates are based on flow meter readings and the assumption the daily flow rates are constant for a give 24-hour period). Recovery well RW-1 has operated effectively during this reporting period.

Recovery well RW-2 has recovered an estimated total of 1,854,350 gallons of impacted groundwater as of December 31, 2007 (total recovery estimates are based on flow meter readings and the assumption the daily flow rates are constant for a give 24-hour period). Recovery well RW-2 has operated effectively during this reporting period.

Recovery well RW-3 has recovered an estimated total of 1,391,384 gallons of impacted groundwater as of December 31, 2007 (total recovery estimates are based on flow meter readings and the assumption the daily flow rates are constant for a give 24-hour period). Recovery well RW-3 has operated effectively during this reporting period.

Recovery well RW-4 has recovered an estimated total of 1,738,416 gallons of impacted groundwater as of December 31, 2007 (total recovery estimates are based on flow meter readings and the assumption the daily flow rates are constant for a give 24-hour period). RW-4 operated effectively during this reporting period through October 2007. RW-4 was not operational from October through December 2007. RW -4 was taken off line on October 26, 2007 in order to replace the pump and electrical components. RW-4 was placed back on line in January 2008.

An estimated 1,563,444 gallons of treated groundwater was re-injected into the subsurface at Injection Galley G-1 during this reporting period. Treated groundwater was re-injected into G-1 at rates between 0.80 – 8.68 gpm during this reporting period (average 5.18 gpm). A total estimated 3,772,856 gallons of treated groundwater has been re-injected into the subsurface at Injection Galley G-1.

An estimated 1,655,945 gallons of treated groundwater was re-injected into the subsurface at Injection Galley G-2 during this reporting period. Treated groundwater was re-injected into G-2 at rates between 1.62 – 6.61 gpm during this reporting period (average 3.97 gpm). A total estimated 1,716,285 gallons of treated groundwater has been re-injected into the subsurface at Injection Galley G-2. Groundwater re-injection through Injection Galley G-2 was discontinued on or about November 20, 2007 due to the possibility that the groundwater injected into this Galley was moving impacted groundwater offsite and to the northeast. Utilization of Injection Galley G-2 has been temporarily suspended pending the results of an on-going hydrogeologic assessment of the shallow subsurface aquifer.

Subsurface re-injection of treated groundwater onsite has also been facilitated through a series of three groundwater injection wells, IW-1, IW-2 and IW-3. Re-injection through the injection wells has been intentionally regulated in order to distribute additional groundwater and administer necessary remedial additives (i.e. microbes and nutrients) effectively and completely throughout the subsurface areas of concern.

An estimated 31,503 gallons of treated groundwater was re-injected into the subsurface at Injection Well IW-1 during this reporting period. Treated groundwater was re-injected into Injection Well IW-1at rates between 0.04 – 2.23 gpm during this reporting period (average 0.79 gpm). A total estimated 40,531 gallons of treated groundwater has been re-injected into the subsurface at Injection Well IW-1 since system operation began.

An estimated 56,373 gallons of treated groundwater was re-injected into the subsurface at Injection Well IW-2 during this reporting period. Treated groundwater was re-injected into Injection Well IW-2 at rates between 0.04 – 3.84 gpm during this reporting period (average 0.91 gpm). A total estimated 92,890 gallons of treated groundwater has been re-injected into the subsurface at Injection Well IW-2 since system operation began.

An estimated 29,286 gallons of treated groundwater was re-injected into the subsurface at Injection Well IW-3 during this reporting period. Treated groundwater was re-injected into Injection Well IW-3 at rates between 0.11 – 5.19 gpm during this reporting period (average 1.35 gpm). A total estimated 65,956 gallons of treated groundwater has been re-injected into the subsurface at Injection Well IW-3 since system operation began. The re-injection of large

volumes of treated groundwater at IW-3 was performed for the purpose of accelerating subsurface bioremediation within the heart of the groundwater plume, beneath and adjacent to the warehouse and tank farm.

A fourth Injection Well, IW-4, was not utilized during this reporting period.

Please note that the total groundwater recovery and injection data is only an approximation, given the flow meters that are utilized are often plugged or otherwise fouled with iron oxide and require substantial repair and routine maintenance.

The onsite treatment system continues to be monitored on a daily basis. The treatment system is operating effectively as a closed loop recirculation treatment system. Groundwater recovery yields are excellent, the groundwater injection galleys and wells are functioning without excessive groundwater mounding and the volatile organic compound (VOC) plume is being treated. Groundwater monitoring data for the onsite treatment system is presented in Table 2.

5.2.1 Offsite Garage/Abandoned Field Road Area

The offsite recovery wells (RW-5D and RW-7) have been pumping/recovering groundwater continuously at an average rate of between 0.28 and 2.76 gpm.

The impacted groundwater has been and continues to be pumped through the bioreactor tanks and polishing carbon vessels, and re-injected upgradient of the garage and wetlands area through a recharge trench and injection wells. Routine maintenance and repairs to the groundwater recovery and treatment system were expected and performed accordingly during this reporting period. As previously mentioned recovery wells RW-5S and RW-6 have not been operational since the treatment system has been placed on line. These wells may be replaced in the future if necessary.

Recovery well RW-5D has recovered an estimated total of 454,000 gallons of impacted groundwater as of December 31, 2007 (total recovery estimates are based on flow meter readings and the assumption the daily flow rates are constant for a give 24-hour period). RW-5D recovered approximately 350,000 gallons of impacted groundwater during this reporting period. RW-5D operated effectively and uninterrupted during this reporting period with occasional adjustments to regulate the daily and cumulative flow rates in tandem with recovery well RW-7.

Recovery well RW-7 has recovered an estimated total of 760,000 gallons of impacted groundwater as of December 31, 2007 (total recovery estimates are based on flow meter readings and the assumption the daily flow rates are constant for a give 24-hour period). RW-7 recovered approximately 546,000 gallons of impacted groundwater during this reporting period. RW-7 operated effectively and uninterrupted during this reporting period with occasional adjustments to regulate the daily and cumulative flow rates in tandem with recovery well RW-5D.

Approximately 800,000 gallons of impacted groundwater have been recovered during this reporting period, and approximately 1.3 million gallons of impacted groundwater have been recovered since the groundwater recovery and treatment system was placed on line.

An estimated total of 1,091,668 gallons of treated groundwater has been re-injected into the subsurface at the Injection Trench. Approximately 543,586 gallons of treated groundwater were re-injected into the subsurface at the Injection Trench during this reporting period. Groundwater re-injection at the Recovery Trench commenced on October 17, 2006. Treated groundwater was re-injected into the Trench at rates between 0.37 – 9.66 gpm, with an average injection rate of 3.52 gpm during this reporting period.

An estimated total of 258,829 gallons of treated groundwater has been re-injected into the subsurface at Injection Well IW-5. Groundwater re-injection at the Injection Well IW-5 commenced on July 2, 2007. Treated groundwater was re-injected into IW-5 at rates between 0.32 – 4.55 gpm, with an average injection rate of 2.83 gpm.

Approximately 800,000 gallons of impacted groundwater have been re-injected into the subsurface during this reporting period, and approximately 1.3 million gallons of impacted groundwater have been re-injected into the subsurface since the groundwater recovery and treatment system was placed on line.

The offsite treatment system continues to be monitored on a daily basis. The treatment system is operating effectively as a closed loop recirculation treatment system. Groundwater recovery yields are excellent, the groundwater injection galleys and wells are functioning without excessive groundwater mounding and the volatile organic compound (VOC) plume is being treated successfully. Groundwater monitoring data for the offsite treatment system is presented in Table 3.

5.2 Remedial Additives

5.2.1 Remedial Additives Inoculation

GCC implemented the *ex-situ* and *in-situ* biological treatment of subsurface groundwater impacts at both the Warehouse/Yard Area and the Garage/Abandoned Field Road Area, through the introduction of chlorinated- and non-chlorinated compound-degrading microbes along with nutrients and liquid biocatalyst. The bio-treatment product is a proprietary blend of naturally occurring, exogenous, non-pathogenic microbes of the *Archaea* domain, which have been cultured to augment the development and metabolic/reproductive rates of select strains. The microbial products contain a consortium of petroleum hydrocarbon-degrading and de-chlorinating microbes (including MicroSorb® DC [de-chlorinating microbes] and MicroSorb® SC ['super concentrate']) at concentrations of up to 90 billion microbes per gram. These microbes have a preference for metabolizing long-chain and cyclic petroleum hydrocarbons and chlorinated solvents, such as those found at the GCC Site. The microbes and associated remedial additives (i.e. nutrients and liquid biocatalyst) are provided by MicroSorb® Environmental Products, Inc. (MicroSorb®) of Norwell, MA. Information on the microbial products was presented in the Modified Stabilization Plan dated March 30, 2004.

Typical nutrient mixtures that are applied are analogous to a common 20-10-10, non-urea plant food with a balanced Nitrate/Nitrogen content. The optimal concentration of nutrient mixture is 13 mg/l of which 20% (approximately 2.6 mg/l) is total Nitrogen and 1.2 % (approximately 0.16 mg/l) is nitrogen as Nitrate. The addition of the nutrient mixture typically does not produce a Nitrate/Nitrogen level in down-gradient wells in excess of the Massachusetts Groundwater Quality Standards established under 314 CMR 6.00 (10 mg/l). Information on nutrient additives was presented in the Modified Stabilization Plan dated March 30, 2004.

The proprietary, water-based (liquid) biocatalyst that produces essential nutrients and enzymes that facilitates an accelerated microbial metabolic-reproductive rate is introduced simultaneously with the microbes. The biocatalyst is non-pathogenic, non-toxic and non-flammable as described in the Modified Stabilization Plan. The liquid biocatalyst has no adverse impact on soil, groundwater or surface water quality at the Site or beyond. Information on the liquid biocatalyst was presented in the Modified Stabilization Plan dated March 30, 2004.

The addition of microbes, nutrients and biocatalyst into the onsite system bioreactor tanks commenced on December 8, 2005 and continued throughout this reporting period. Approximately ten ounces of biocatalyst have been added to each biocatalyst generator (the "CoGen") each week (2 ounces per day). 496 ounces of biocatalyst were added to the CoGen during this reporting period. A total of 980 ounces of biocatalyst have been added to the CoGen since December 2005.

MicroSorb SC was not added to the bioreactors during this reporting period. MicroSorb DC and MicroSorb Nutrients were added to each onsite bioreactor approximately every two weeks during this reporting period.

A total of 6.90 pounds of MicroSorb DC were added to onsite Bioreactor 1 during this reporting period. A total of 25.65 pounds of MicroSorb DC have been added to onsite Bioreactor 1 since December 2005. A total of 2.6 pounds of MicroSorb Nutrients were added to onsite Bioreactor 1 during this reporting period. A total of 7.84 pounds of MicroSorb Nutrients have been added to onsite Bioreactor 1 since December 2005.

A total of 6.70 pounds of MicroSorb DC were added to onsite Bioreactor 2 during this reporting period. A total of 15.45 pounds of MicroSorb DC have been added to onsite Bioreactor 2 since December 2005. A total of 2.40 pounds of MicroSorb Nutrients were added to onsite Bioreactor 2 during this reporting period. A total of 5.39 pounds of MicroSorb Nutrients have been added to onsite Bioreactor 2 since December 2005.

A total of 6.70 pounds of MicroSorb DC were added to onsite Bioreactor 2 during this reporting period. A total of 13.45 pounds of MicroSorb DC have been added to onsite Bioreactor 2 since December 2005. A total of 2.40 pounds of MicroSorb Nutrients were added to onsite Bioreactor 2 during this reporting period. A total of 4.14 pounds of MicroSorb Nutrients have been added to onsite Bioreactor 2 since December 2005.

The addition of microbes, nutrients and biocatalyst activator into the onsite system Injection Galleys commenced on January 11, 2006 and MicroSorb products were administered to each Galley monthly thereafter. MicroSorb SC was not added to the Injection Galleys during this reporting period. MicroSorb DC, MicroSorb Nutrients and biocatalyst activator were added to each onsite Injection Galley monthly during this reporting period.

A total of 30 pounds of MicroSorb DC, 6 pounds of MicroSorb Nutrients and 3,000 gallons of biocatalyst were added to Injection Galley G-1 during 2007. A total of 70 pounds of MicroSorb DC, 14 pounds of MicroSorb Nutrients and 7,000 gallons of biocatalyst were added to Injection Galley G-2 during 2007. Since the start-up of the onsite treatment system in 2005, at total of 5 pounds of MicroSorb SC, 82.5 pounds of MicroSorb DC, 16 pounds of MicroSorb Nutrients and 8,250 gallons of biocatalyst have been added to Injection Galley G-1. Since the start-up of the onsite treatment system in 2005, a total of 5 pounds of MicroSorb SC, 122.5 pounds of MicroSorb DC, 24.5 pounds of MicroSorb Nutrients and 12,250 gallons of biocatalyst have been added to Injection Galley G-2. The Remedial Additives Logs for the onsite treatment system are summarized in Tables 4 and 6.

Web Engineering also implemented the *in situ* biological treatment of groundwater within the onsite Warehouse and Yard area through direct inoculation to impacted soil and groundwater at Injection Wells IW-1, IW-2, IW-3 and IW-4. The locations of the injection wells are depicted in Figure 2. The direct inoculation of the remedial additives to the *in situ* bioremediation system at these specified bioinjection well points augments the effective treatment of the subsurface soil and/or groundwater impacts. The application of the remedial additives at these specified injection points is dependent on whether the subsurface can accommodate the additional amount of groundwater without adversely impacting the hydrology of the area, in particular the mounding of the groundwater and/or the inadvertent migration of constituents to offsite areas and/or sensitive environmental receptors. Due to the considerable amount of groundwater infiltration to the subsurface at Injection Galleys G-1 and G-2 remedial additives were not introduced at Injection Wells IW-1, IW-2, IW-3 and IW-4 during 2007.

The addition of microbes, nutrients and biocatalyst into the offsite system bioreactor tanks commenced on December 5, 2005 and continued throughout this reporting period. Approximately ten ounces of biocatalyst activator have been added to each biocatalyst generator (the "CoGen") each week (2 ounces per day). Approximately 490 ounces of biocatalyst activator were added to the CoGen during this reporting period (2007). A total of 522 ounces of biocatalyst activator have been added to the CoGen since December 2005.

MicroSorb SC was not added to the bioreactors during this reporting period. MicroSorb DC and MicroSorb Nutrients were added to each offsite bioreactor on approximately every two weeks during this reporting period.

A total of 2.3 pounds of MicroSorb DC were added to offsite Bioreactor 1 during this reporting period. A total of 2.3 pounds of MicroSorb DC have been added to offsite Bioreactor 1 since December 2005. A total of 2.3 pounds of MicroSorb Nutrients were added to offsite Bioreactor 1 during this reporting period. A total of 2.3 pounds of MicroSorb Nutrients have been added to offsite Bioreactor 1 since December 2005.

A total of 1.8 pounds of MicroSorb DC were added to offsite Bioreactor 2 during this reporting period. A total of 1.8 pounds of MicroSorb DC have been added to offsite Bioreactor 2 since December 2005. A total of 1.8 pounds of MicroSorb Nutrients were added to offsite Bioreactor 2 during this reporting period. A total of 1.8 pounds of MicroSorb Nutrients have been added to offsite Bioreactor 2 since December 2005.

Remedial additives were not applied to the subsurface through the offsite injection wells (i.e. RW-5D and RW-7) nor applied to the offsite Recovery Trench.

The Remedial Additives Logs for the offsite treatment system are summarized in Tables 5 and 6.

5.2.2 Remedial Additives Monitoring

Monitoring for remedial additives was not performed at the Site during this reporting period. Hydraulic control of the groundwater within the onsite and offsite areas of the Site has been maintained through the operation of six groundwater recovery wells. The Injection Wells and Injection Galleys are located upgradient of these recovery wells, thus any remedial additives applied to the subsurface are re-captured down-gradient in the recovery wells. Maintenance of hydraulic control within the onsite treatment system area is demonstrated in Figure 8.

If hydraulic control within the offsite area cannot be confirmed, remedial additives monitoring will be performed on a quarterly basis and will include dissolved oxygen, nitrates, nitrites, total nitrogen, ammonia, sulfates, total phosphorus and

total potassium, per the MCP. The analytical tests will be compared to applicable MCP risk standards and federal drinking water standards and/or surface water standards, within the MCP, 310 CMR 40.0000 or 314 CMR 6.00.

5.3 BIOREMEDIATION SYSTEM OPERATIONAL STATUS

5.3.1 Onsite Treatment System

The Onsite Warehouse/Yard Area system is designed to: (1) capture the groundwater contamination plume and prevent future downgradient migration; and (2) bioremediate groundwater from the onsite source area within and adjacent to the GCC facility. Since system start-up and testing began in October 2005 the Onsite system, as designed, has captured and contained the northern portion of the VOC plume, as depicted in Figure 9. The results of sampling and testing of the treatment system effluent (i.e. effluent from the bioreactors) are presented in Table 9a. Sampling and analytical testing of the effluent from the bioreactors indicate elevated concentrations of *cis*-1,2-Dichloroethene (or "cis" DCE), a marker analyte indicating bioremediation is occurring within the treatment system. Additionally, we have observed a decrease in the concentration of total VOCs in the treatment system effluent. Based on the configuration of the total VOC plume and analytical testing results, the Onsite treatment system is operating according to design. This system is currently operating effectively at full capacity as a closed-loop recirculation treatment system. The well yields are excellent, the injection galleys and injection wells are functioning as anticipated and the VOC plume is being effectively captured and contained.

5.3.2 Offsite Treatment System

The Offsite Garage/Abandoned Field Road Area system is designed to bioremediate the downgradient, or southern VOC plume that has migrated offsite beneath, and past, the abutting CSX railroad tracks and the MWRA aqueduct.

Since system start-up and testing began, the Offsite system, as designed, has captured and contained a portion of the offsite VOC plume, as depicted in Figure 9. The results of sampling and testing of the offsite treatment system effluent (i.e. effluent from the bioreactors) are presented in Table 9a. The test results initially indicated an increase in the concentration of total VOCs within the treatment system effluent. These increases in VOC concentrations following startup are typically observed as the VOC plume is drawn into the system. Such

a VOC 'spike' was observed in the Onsite Treatment System effluent as well. During this reporting period, we have observed a consistent decrease in the total VOC concentrations. Sampling and analytical testing of the effluent from the offsite bioreactors also indicate elevated concentrations of *cis* DCE, the marker analyte indicating bioremediation is occurring within the treatment system, as observed in the offsite treatment system analyses. Based on the configuration of the total VOC plume the offsite treatment system is operating according to design and specifications. This system is currently operating effectively at full capacity as a closed-loop recirculation treatment system. The well yields are excellent, the system is functioning as anticipated and the downgradient/southern VOC plume is being effectively captured and contained.

5.4 Remedial Action Impacts

The operation of the treatment systems and operations (i.e. groundwater recovery and treatment, bio-injection, bioaugmentation, etc) have not had any observed adverse impact on existing onsite or offsite surface or subsurface environmental receptors except for elevated VOC levels in GZ-6. Further, the installation, operation, maintenance and monitoring of the treatment systems have not had any proven adverse impact on nearby environmental receptors or other natural resource areas, such as the Drainage Ditch, Course Brook, the wetlands, adjacent residences, etc, based on field observation and laboratory test data.

The following procedures have been implemented at the site in order to maintain compliance with the "Management Procedures for Remedial Wastewater and Remedial Additives" under Section 310 CMR 40.0040 of the Massachusetts Contingency Plan:

- The quantity of additives is sufficiently small such that their application to the groundwater has not affected the surface or subsurface soil or any other subsurface structures, or caused any mounding, flooding, or breakout to the ground surface;

- The microbial mixture is the *Archaea*, and therefore does not contain any pathogenic or coliform bacteria and the biocatalyst is a carbon-enriched water that is processed from naturally-occurring organic materials. Accordingly, their application has no adverse impact on the quality of the groundwater at the disposal site. The nutrients may raise the nitrogen levels in the groundwater; however, the amount of nutrients added to the subsurface is sufficiently low such that the

Massachusetts Groundwater Quality Standards established under 314 CMR 6.00 are not anticipated to be exceeded.

- The application of microbes, nutrients and liquid biocatalyst do not exacerbate the existing conditions or inhibit the natural attenuation of contaminants in the existing soil and/or groundwater.

Concentrations of "cis" DCE, Trichloroethylene (TCE) and Tetrachloroethene (PCE) were detected at groundwater monitor well GZ-6. This monitor well is located within ten feet of the Woodrow Wilson School, located to the northeast and hydrologically cross-gradient of the GC facility. At this time it is unclear as to the source of these constituents in the groundwater. An investigation is currently underway at the northern portion of the GCC Site to determine whether the presence of these constituents is a portion of the GCC plume, and whether the re-introduction of treated groundwater to the onsite treatment system groundwater regime at Injection Galley # 2 has a direct or indirect bearing on their presence in the groundwater at GZ-6.

There have not been any observed adverse remedial action impacts to Course Brook or the adjacent residences from the operation of the groundwater recovery and treatment systems at the GCC facility. In fact, during this reporting period we have observed a marked decrease in the concentrations of constituents of concern at both locations.

5.5 Safety Controls

The groundwater recovery and treatment system operates on a 24 hour per day basis, seven days per week. Groundwater recovery (and containment within the bioreactors) is controlled by high and low level probes installed within the treatment tanks. Light or dense-non-aqueous phase liquid (LNAPL or DNAPL) collected in the system is contained within the first treatment tank at each area, thus eliminating the need for offsite disposal. Groundwater recovery and recharge rates are monitored (controlled) through an individual series of flow meters and adjustable flow valves for each recovery and recharge point. Web Engineering, in conjunction with GCC personnel, oversees the day-to-day operation of the treatment system.

Safety control devices, including (but not limited to) containment structures, leak detection devices, run-off controls, pressure valves, bypass systems or safety cutoffs, are not applicable to these remedial actions at this time.

5.6 Management of Remediation Wastes

A certain amount of remediation waste is generated during treatment system operation and maintenance activities. All waste generated in the installation, operation and maintenance of the system has been managed as internally-generated waste by the GCC facility, as the waste is part of the same site under the same Generator Identification Number. Since GCC is a licensed hazardous waste management facility, internally-generated waste is placed into facility inventory and is subsequently transported to appropriate licensed facilities for treatment or disposal. A description of remediation waste management follows:

The generation of soil as remediation waste has not occurred during this reporting period. Recovered groundwater is managed through the biotreatment systems.

MIscellaneous remediation wastes generated such as polyethylene sheeting, piping, bag filters, bailers, sampling gloves, absorbent pads or socks, etc. have been containerized and managed in an appropriate manner by GCC.

6.0 HYDROLOGIC MONITORING

6.1 Groundwater and Surface Water Elevation Measurements

In accordance with MassDEP requirements for semi-annual groundwater gauging, sampling and analytical testing, Web Engineering completed all groundwater and surface water monitoring activities during this reporting period. The groundwater/surface water monitoring program has expanded to include fifty groundwater monitor wells (identified as CDW-9, CDW-10, CDW-11, CDW-12, CDW-14, CDW-15, CDW-18S, CDW-18D, CDW-19S, CDW-19D, GZ-2, GZ-4, GZ-4R, GZ-5S, GZ-5D, GZ-6, GZ-7, GZ-7R, GZA-14S, GZA-14M, GZA-15S, GZA-15D, GZA-15R, GZA-16M, GZA-17S, GZA-17M, GZA-18S, GZA-18M, GZA-19DD, EW-PZ-1, EW-PZ-2S, EW-PZ-2D, PZ-1S, PZ-1D, PZ-2S, PZ-2D, PZ-3S, PZ-3D, ERM-11, ERM-12, WMW-1, WMW-2S, WMW-2D, WMW-3, WMW-4, WMW-5, WMW-6, WMW-7, WMW-8S and WMW-8D), eight groundwater recovery wells (identified as RW-1, RW-2, RW-3, RW-4, RW-5S, RW-5D, RW-6 and RW-7), and four surface water sampling locations (identified

as SW-3, SW-10, SW-DCS-1 and SW-USA-1).

Groundwater levels and surface water elevations are measured to the nearest 0.01-foot using a Solinst electronic interface probe. Groundwater levels and surface water elevations are calculated by subtracting the measured groundwater/surface water depth/elevation from the existing measuring point elevation. Groundwater and surface water elevation data are presented in Table 1 and graphically depicted in Figure 8, Hydrogeologic Data. The expanded groundwater/recovery/injection well network was most recently gauged and sampled in November - December 2007. The next gauging/sampling event is scheduled for March 2008.

6.2 Groundwater/Surface Water Gauging Results

6.2.1 Groundwater Levels

Depths to groundwater in monitoring wells are measured quarterly to the nearest 0.01-foot using a Solinst electronic interface probe. Groundwater elevations are calculated by subtracting the measured groundwater water depth from the existing measuring point elevation. The elevations measured during the recent rounds are consistent with those observed during previous gauging events.

Historical groundwater elevation data generally indicate downward vertical gradients in the following well clusters: GZ-7/7R, GZ-4/4R, CDW19S/19D, GZA-14S/14M, and the SW-PZ3/PZ-3S clusters. Upward vertical gradients have historically been observed in the CDW-18S/18M, CDW-19D/19DD, GZ-5S/5D, GZA-15S/15D, GZA-17S/17M, GZA-18S/18M, EW-PZ-2S/2D, PZ-1S/1D, and SW-PZ3S/3D well clusters. Generally speaking, the most recent round of groundwater gauging has indicated that there has not been any significant change in the downward of upward vertical components in these wells. No significant vertical component to groundwater flow was observed in the other well clusters.

Generally, groundwater levels have been gauged between 1.08 – 12.01 feet in the groundwater monitor wells. Groundwater levels in the recovery wells have been gauged at 30.0 – 40.0 feet. Depth to groundwater in Injection Galley G-1 (Area A – Onsite Warehouse/Yard Area) was 2.54 feet in December 2007. Injection Galley G-2 was dry due to deliberate shut down in November 2007. Depth to groundwater in the Upper and Lower Injection Trench (Area B – Offsite Garage/Abandoned Field Road Area) were 1.05 and 2.26 feet, respectively.

Groundwater elevations across the study area are historically lower in the summer and fall, rise during the winter and early spring, and are highest in the late spring. The summer elevations are consistently lower than the spring elevations. Groundwater elevations gauged during this reporting period were consistent with historical groundwater gauging data.

6.2.2 Surface Water Monitoring

Surface water elevations are measured quarterly to the nearest 0.01-foot using a Solinst electronic interface probe. No separate phase floating product (LNAPL) was detected or observed in the surface water during this reporting period through December 2007. Surface water was not gauged in December 2007 due to frozen conditions on the surface of Course Brook.

6.2.3 Groundwater Flow Impacts

As previously mentioned, groundwater is encountered at depths of between 1.05 and 1.08 feet below grade surface (in monitor well CDW-11 and the upper Injection Trench) to nearly 12.01 feet below grade surface (at monitor well GZ-6 located to the northeast of the facility, near the school property). Groundwater elevations not generally within the radius of influence of the groundwater recovery wells vary between 147 feet to 156 feet. These groundwater levels are generally consistent throughout the year, with only minor seasonal fluctuation. Historically, groundwater levels are somewhat higher during the spring or "wet season", and somewhat lower during late summer and fall or "dry season".

Previous investigations identified a shallow, upper groundwater zone consisting of sand deposits with high permeability, and a deeper, lower groundwater zone consisting of sand-silt-clay deposits with lower permeabilities. The groundwater gradient (flow direction) in the upper sandy groundwater zone is generally south to southeast. The groundwater gradient (flow direction) in the lower silty groundwater zone is roughly north to south. The overall gently sloping groundwater gradient at the Site indicates a relatively low groundwater flow velocity, with the exception of areas influenced by the recovery wells and the injection galleys and trenches. Web Engineering has found the recent groundwater flow regimes to be consistent with the historical groundwater flow regimes.

The average depth to groundwater at the Site is generally between four to seven feet below grade surface. Groundwater flow is most impacted at the areas of the recovery wells, where groundwater depression occurs and the groundwater injection galleys and trenches, where groundwater mounding has been observed. Groundwater vector analyses and flow diagrams indicate groundwater movement to be in a southerly direction, except for the areas within the influence of the recovery wells and injection galleys/trenches. At these locations, groundwater data indicate flow toward the recovery wells and away from the injection galleys/trenches.

6.2.4 Groundwater Recovery

Figure 8 (Hydrogeologic Data) depicts the influence of the operation of the groundwater recovery system at the Onsite Warehouse/Yard Area in December 2007. Recovery wells RW-1, RW-2, RW-3 and RW-4 were operating fairly consistently during this reporting period with the exception of short-term, temporary shut downs for routine and anticipated maintenance and repair. A significant groundwater capture zone is depicted in the Figure at Recovery Wells RW-1 through RW-4 at the Onsite Warehouse/Yard Area and at Recovery Wells RW-5D and RW-7 at the Offsite Garage/Abandoned Field Road Area. The most significant, and certainly the most graphically prominent capture zone is within and around Recovery Well RW-2. The groundwater elevation at the northern portion of the site is generally between 152 and 158 feet. The groundwater is depressed to elevation 149.81 feet at recovery well RW-1, to elevation 148.98 at recovery well RW-2, and to elevation 122.93 feet at recovery well RW-3 (most influential). The groundwater is not as graphically depressed at RW-4 where the groundwater level was 153.71. The groundwater contours indicate that the warehouse and tank farm area are within the groundwater capture zones of the onsite recovery wells.

Figure 8 also depicts the influence of the operation of the groundwater recovery system at the Offsite Garage/Abandoned Field Road Area in December 2007. Recovery wells RW-5D and RW-7 were operating fairly consistently during this reporting period with the exception of short-term, temporary shut downs for routine and anticipated maintenance and repair. Significant groundwater capture zones are depicted in Figure 8 at Recovery Wells RW-5D and RW-7. The groundwater elevation at the northern portion of the site is generally between 149 and 152 feet. The groundwater is depressed to elevation 112.90 feet at recovery well RW-5S and to an elevation greater than 124.33 feet at recovery well RW-7.

Groundwater is depressed to a depth of 40.00 feet at RW-5D and to a depth greater than 30 feet at RW-7. The groundwater contours and particle flow analyses definitely indicate that the Garage and Abandoned Field Road Area are within the groundwater capture zones of the onsite recovery wells.

6.3 Wetlands Monitoring

Web Engineering did not monitor directly the surface/groundwater levels in the wetlands area as such monitoring is not within the scope of this Monitoring and Performance status report. A discussion of the analytical test results from the well installed within the wetlands area (e.g. PZ-1S) is presented in Section 7.2 of this status report. Water levels in the wetlands are typically higher during wetter seasons and lower during drier seasons. Based on field observations LNAPL and/or oily sheen was not observed on the water within the wetlands during this reporting period. There has not been any observed or measured increase or decrease in water level within the wetlands due to the operation of the groundwater recovery/treatment systems during this reporting period.

6.4 MWRA Aqueduct Monitoring

Groundwater monitor wells GZ-5S and GZ-5D are the two groundwater monitor wells gauged and sampled in proximity to the MWRA Aqueduct. A discussion of the analytical test results from these wells is also presented in Section 7.2 of this status report. Direct gauging/sampling/analytical testing of the water within the MWRA Aqueduct has not been performed. Based on field observations and groundwater gauging, LNAPL, DNAPL and/or oily sheen was not observed on the water within proximity to the MWRA Aqueduct, historically or during this reporting period. There has not been any observed or measured increase or decrease in water level in proximity to the MWRA Aqueduct due to the operation of the groundwater recovery/treatment systems during this reporting period.

6.5 Drainage Ditch Monitoring

Based on field observations, LNAPL and/or oily sheen was not observed on the water within the drainage ditch during this reporting period. There has not been any observed or measured decrease in water level within the drainage ditch due to the operation of the groundwater recovery/treatment systems during this reporting period. Surface water sampling location SW-10 is located along the drainage ditch, just to the east of the Offsite treatment system. A sample of the

surface water from the drainage ditch at this surface water sampling location was not obtained due to frozen water conditions at the time of scheduled sampling and testing. A sample of the surface water from location SW-10 will be obtained during the next reporting period.

6.6 Surface Water Monitoring

Based on field observations, LNAPL and/or oily sheen were not observed on the surface water within Course Brook, located to the south and downgradient of the GCC facility.

Surface water sampling locations SW-3, SW-DSC-1 and SW-USA-1 are located along Course Brook and these locations were sampled and analytically tested for the presence of constituents of concern during this reporting period. A discussion of the analytical test results from these wells is also presented in Section 7.3 of this status report.

7.0 DETECTION MONITORING

7.1 LNAPL and DNAPL

7.1.1 LNAPL Detection and Recovery

The groundwater recovery and treatment system is designed to capture and recover light non-aqueous phase liquid or LNAPL from the groundwater during routine operation. Occasionally, LNAPL will accumulate during periods when the recovery well(s) are not operational. The semi-annual well monitoring and quarterly gauging activities therefore include the capture and removal of LNAPL from impacted wells and the containerization of the recovered LNAPL in labeled 55 gallon drums that are stored in a secure location on site. The LNAPL is recovered using a peristaltic pump. The recovered LNAPL is managed internally on site by GCC.

The program of LNAPL recovery began on May 4, 2007. Groundwater monitor wells and groundwater recovery wells are gauged with an oil-water interface probe. Measurable LNAPL has been detected in wells WMW-6, RW-3, RW-4 (Onsite Warehouse/Yard Area). The individual groundwater monitor/recovery well gauging and LNAPL recoveries are summarized in Table 7. A cumulative record of LNAPL recovery is also presented in Table 7.

WMW-6

Initial LNAPL thickness in this well was 1.80 inches (May 4, 2007). LNAPL thickness has fluctuated between 0.00 and 6.87 inches. The thickness of LNAPL was 6.87 inches on September 12, 2007. LNAPL was detected in well WMW-6, toward the close of this reporting period (November 2007). A total of 0.03 gallons of LNAPL have been removed from this well as of November 2007.

RW-3

Initial LNAPL thickness in this well was 1.92 inches (May 4, 2007). LNAPL thickness has fluctuated between 0.00 and 5.55 inches. The thickness of LNAPL was 5.55 inches on May 25, 2007. LNAPL was not detected in well RW-3, toward the close of this reporting period (November 2007). A total of 1.88 gallons of LNAPL have been removed from this well as of November 2007.

RW-4

Initial LNAPL thickness in this well was 7.80 inches (May 4, 2007). LNAPL thickness has fluctuated between 0.00 and 7.80 inches. LNAPL was not detected in well RW-4, toward the close of this reporting period (November 2007). A total of 2.33 gallons of LNAPL have been removed from this well as of November 2007.

A total of 4.24 gallons of LNAPL have been recovered from the impacted wells to date.

7.1.2 DNAPL Detection and Recovery

The groundwater recovery and treatment system is also designed to capture and recover dense non-aqueous phase liquid or DNAPL from the groundwater during routine operation. The semi-annual well monitoring and quarterly gauging activities include the capture and removal of DNAPL from impacted wells and the containerization of the recovered DNAPL in labeled 55 gallon drums that are stored in a secure location on site. The DNAPL is recovered using a peristaltic pump. The recovered DNAPL is managed internally on site by GCC.

The program of DNAPL recovery began on May 4, 2007. Groundwater monitor wells and groundwater recovery wells are gauged with an oil-water interface probe. Measurable DNAPL has been detected only in well WMW-8 (Offsite Garage/Abandoned Field Road Area). Individual groundwater monitor/recovery well gauging and DNAPL recoveries are summarized in Table 7. A cumulative record of DNAPL recovery is also presented in Table 7. The location of the DNAPL is depicted in Figure 9.

WMW-8D

DNAPL was first discovered in this well in February 2007. A trace of DNAPL as globules appeared in the groundwater on May 4, 2007. Initial measurable DNAPL thickness in this well was 2.28 inches on June 1, 2007. DNAPL thickness has fluctuated between 0.00 and 15.00 inches. The thickness of DNAPL was 9.64 inches on November 2, 2007, toward the close of this reporting period. A total of 0.99 gallons of DNAPL have been removed from this well as of November 2007.

7.2 Sampling and Analytical Testing - Groundwater

7.2.1 Groundwater Sampling Procedures

Groundwater samples were obtained from twenty-five wells in November 2007. The wells that were sampled included GZ-2, GZ-5S, GZ-6, GZ-7, GZ-7R, GZ-14S, GZ-14M, GZ-15S, GZ-15D, GZ-15R, GZ-19DD, PZ-1D, WMW-1S, WMW-2S, WMW-2D, WMW-3, WMW-4, WMW-5, WMW-7, WMW-8S, RW-1, RW-2, RW-3, RW-5D, and RW-7. All groundwater samples were collected using low-flow sampling techniques in accordance with USEPA guidelines. Water quality parameters (water level, pH, temperature, specific conductivity, dissolved oxygen, ORP and turbidity) were recorded every few minutes prior to sampling, until the groundwater physio-chemistry stabilized. The physio-chemical parameters of the groundwater were measured using the Solinst groundwater probe, a YSI Model 600XL Multimeter and a Lamotte Turbidity Meter. The YSI Multimeter was calibrated at the beginning of each day of monitoring. Groundwater samples were collected from each well following parameter stabilization within EPA criteria. Groundwater samples obtained from the recovery wells are obtained through the sampling ports rather than directly from the well. The specific sampling dates and times are noted on the Chain of Custodies accompanying the laboratory reports in Appendix B.

Groundwater samples were collected in 40-ml VOA vials preserved with hydrochloric acid (HCl) and stored on ice pending transport to the analytical testing laboratory. The samples were transported to a MassDEP-certified laboratory in accordance with MassDEP Chain of Custody protocol. The samples were analytically tested for VOCs using EPA Method 8260B. The analytical test results are presented in Table 8 and the laboratory reports are included in Appendix A.

WMW-6 was not sampled because of the presence of LNAPL on the groundwater. WMW-8D was not sampled because of the presence of DNAPL in the groundwater. RW-4 was not sampled because this recovery well was not operating at the time of groundwater sampling. These wells are anticipated to be sampled during the next reporting period.

7.2.2 Groundwater Analytical Testing Results

Chlorinated VOCs, including Tetrachloroethene (PCE), Trichloroethene (TCE), *cis*-1,2-Dichloroethene (*cis*-DCE), 1,1-Dichloroethene (1,1-DCE), Vinyl Chloride, 1,1,1-Trichloroethane (TCA), 1,1-Dichloroethane (1,1-DCA) and Methylene Chloride have been detected above method detection limits in the groundwater samples. Non-chlorinated VOCs, including Ethylbenzene, Xylenes, Naphthalene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, *sec*-Butyl Benzene, 4-Isopropyltoluene, *n*-Propylbenzene, and Isopropylbenzene have also been detected above method detection limits in the groundwater samples. The total VOC concentrations detected ranged from ND ug/l (not detected above method detection limits) to 129,800 ug/l in recovery well RW-3. The tabulated analytical results for each of the six sampling events are included with this report in Table 8.

A decrease in the concentration of total VOCs was observed in thirteen wells (GZ-5S, GZ-14M, GZ-15S, GZ-15D, GZ-15R, GZ-19DD, WMW-1S, WMW-2S, WMW-2D, WMW-7, RW-3, RW-5D and RW-7). The range of total VOC decrease was between 9.65% (in well WMW-6) to 97.72% (in well WMW-1S). Overall, the total VOCs in these wells decreased an average of 51.92% since the last reporting period.

An increase in total VOCs was observed in eleven wells (GZ-2, GZ-6, GZ-7, GZ-7R, GZ-14S, WMW-3, WMW-4, WMW-5, WMW-8S, RW-1 and RW-2).

Monitor Well GZ-2

This well is located to the southeast of the GCC property and to the east of recovery well RW-1. Low concentrations of 1,1-DCE (4 ppb), *cis*-DCE (43 ppb), TCA (38 ppb), TCE (20 ppb) and PCE (52 ppb) were detected in this well. Concentrations of detectable analytes did not exceed MCP GW-3 risk standards in this well. The total VOCs in this well have increased since the last reporting period, from below detection limits to 157 ppb. The highest total VOC levels were observed in December 2004. The leaching field located on the adjacent school property may have a seasonal effect on the contaminant levels in this well.

Monitor Well GZ-5S

This well is located to the southwest of the GCC property and to the northwest of the offsite treatment system, at the intersection of Leland Street and the Boston Edison Access Road. 1,1-DCA (0.5 ppb), *cis*-DCE (3 ppb), TCA (1 ppb), TCE (6 ppb) and PCE (25 ppb) were detected in this well, and did not exceed MCP GW-3 risk standards in February-March 2007. Concentrations of volatile organic compounds in this well were not detected during the November sampling period, a decrease of 64.19%.

Monitor Well GZ-6

This well is located to the northeast of the GCC property adjacent to the Wilson School. 1,1-DCE (15 ppb), *cis*-DCE (260 ppb), TCA (190 ppb), TCE (96 ppb) and PCE (75 ppb) were detected in this well during this reporting period. Concentrations of *cis*-DCE, TCE and PCE initially exceed MCP GW-2 risk standards in this well. The total VOCs in this well have increased since the last reporting period, from 112 ppb to 636 ppb. The leaching field located on the adjacent school property may also have a seasonal effect on the contaminant levels in this well.

Note: This well is located adjacent to the Woodrow Wilson School. In consideration of potential impacts to the indoor air quality at the school additional investigations were performed by the MassDEP in November 2007. The investigation included: (1) re-sampling and testing of a groundwater sample obtained from monitor well GZ-6; (2) installation, sampling and analysis of two soil vapor probes outside of the gymnasium area; (3) qualitative testing for the presence of organic vapors within floor drains and floor-wall interfaces within the gymnasium and other proximate areas within the school building; and (4) collection and analytical testing of four indoor air samples obtained from four locations within the school building and one

air sample obtained from outside of the building. The results of the investigation indicated: (1) constituents of concern were confirmed to be present in the groundwater at monitor well GZ-6 at detectable concentrations that meet the MCP Method 1 Groundwater Category GW-2 risk standards (lower concentrations than found by Web Engineering a few weeks prior); (2) soil gas analyses indicated the presence of low concentrations of only TCA in the soil gas, suggesting that there may be some upward migration of the volatile constituents from the groundwater, albeit at low concentrations; (3) qualitative sampling of ambient air space within the floor drains and floor-wall interfaces within the school did not identify the presence of any volatile organics (earlier detection may have been the result of the use of cleaning agents or shampoo/soap residues); and (4) volatile organic compounds (constituents of concern) were not detected in any of the indoor air samples obtained during the investigation. The results of the MassDEP investigation concluded that the constituents of concern identified in the groundwater at GZ-6 have not impacted the indoor air quality of the Woodrow Wilson School, and impacts to the indoor air quality of the school in the future are considered highly unlikely.

Monitor Well GZ-7

This well is located along the northern GCC property line near Leland Street and upgradient of the onsite treatment system. This well is situated between the GCC property and the car wash located across Leland Street. *cis*-DCE (1,100 ppb), TCA (780 ppb), TCE (290 ppb) and PCE (280 *ppb)* were detected in this well, increasing in concentration since February-March 2007.

Monitor Well GZ-7R

This deep well (completed in bedrock and screened between 92-97 feet) is located along the northern GCC property line near Leland Street and upgradient of the onsite treatment system, adjacent to monitor well GZ-7. This well is also situated between the GCC property and the car wash located across Leland Street. 1,1-DCE (18 ppb), *cis*-DCE (140 ppb), TCA (170 ppb), TCE (92 ppb) and PCE (410 ppb) were detected in this well, increasing in concentration since February-March 2007, believed to be the result of leakage from the shallower aquifer. The concentration of total VOCs increased from 74.5 ppb (in February-March 2007) to 830 ppb in November 2007. Concentrations of detectable analytes did not exceed MCP GW-3 risk standards in this well during any sampling/testing event. 1,1-DCA detected in February-March 2007, was not detected during this reporting period. MassDEP has agreed with our plan to decommission this well.

Monitor Well GZ-14S

This shallow well is located along the Exelon Access Road between the surface water drainage ditch and the CSX property, and down-gradient of the onsite and offsite treatment systems. 1,1-DCE (2 ppb), TCA (3 ppb), TCE (48 ppb) and PCE (120 ppb) were detected in this well. The concentration of total VOCs increase in this well increased from 56.4 ppb (in February-March 2007) to 173 ppb. Concentrations of the detectable analytes did not exceed MCP GW-3 risk standards in this well during this reporting period. 1,1-DCA and *cis*-DCE, detected in February-March 2007, were not detected in this well during this reporting period.

Monitor Well GZ-14M

This well is located along the Exelon Access Road between the surface water drainage ditch and the CSX property, adjacent to well GZ-14S, and down-gradient of the onsite and offsite treatment systems. 1,1-DCE (300 ppb), 1,1-DCA (470 ppb), TCA (300 ppb), TCE (3,300 ppb) and PCE (5,900 ppb) were detected in this well. The total VOCs in this well have decreased approximately 46% in this well since the last reporting period, from 18,970 ppb to 10,270 ppb. Concentrations of all detectable analytes did not exceed MCP GW-3 risk standards in this well during this reporting period.

Monitor Well GZ-15S

This shallow well is located along the drainage ditch, adjacent to the Exelon and Sithe properties, down gradient of the treatment systems. Constituents of concern were not detected in this well during this reporting period; all concentrations of the analytes were well below MCP GW-3 risk standards. The total VOCs in this well decreased from 22 ppb to below detection limits during this reporting period.

Monitor Well GZ-15D

This deep well is also located along the drainage ditch, adjacent to the Exelon and Sithe properties, down gradient of the treatment systems and adjacent to well GZ-15S. Vinyl Chloride, 1,1,2-Trichlorotrifluoroethane, 1,1-DCE, 1,1-DCA *cis*-DCE and TCA, previously detected in February-March 2007, were not detected in this well. The total VOCs in this well decreased from 30 ppb to below detection limits during this reporting period.

Monitor Well GZ-15R

This deep well is also located along the drainage ditch, adjacent to the Exelon and Sithe properties, down gradient of the treatment systems and adjacent to well GZ-15S. Vinyl Chloride 1,1,2-Trichlorotrifluoroethane, 1,1-DCE, 1,1-DCA, *cis*-DCE and TCA, previously detected in February-March 2007, were not detected in this well. The total VOCs in this well decreased from 78 ppb to below detection limits during this reporting period.

Monitor Well GZ-19DD

This deep well is located to the west of the surface water drainage ditch, just down-gradient of the offsite treatment system and Recovery Well RW-5D. 1,1-DCE (2,100 ppb), 1,1-DCA (1,200 ppb), *cis*-DCE (30,000 ppb), TCA (7,700 ppb), TCE (4,800 ppb) and PCE (32,000 ppb) were detected in this well. Methylene chloride was also present in this well at a concentration of 22,000 ppb. Only the concentration of PCE exceeds the MCP GW-3 risk standard of 5,000 ppb. The total VOCs in this well have increased in this well since the last reporting period, from 51,950 ppb to 99,800 ppb. High concentrations of VOCs are expected to be found in this well due to its proximity to the recovery wells which are drawing the plume through this well.

Monitor Well PZ-1D

This deep well is located to the west of the surface water drainage ditch, down-gradient of the offsite treatment system and Recovery Well RW-5D, and adjacent (to the east of) the condominium tennis courts. This well had not been sampled or tested since July 2004. Constituents of concern were not detected in this well during this reporting period.

Monitor Well WMW-1S

This well is located to the west of the GCC facility (across Leland Street) and to the southwest of the GCC office building, up-gradient of the onsite and offsite treatment systems. *cis*-1,2-DCE, TCA, TCE and PCE, previously detected during February-March 2007, were not detected in this well during this reporting period. Other constituents of concern were not detected in this well during this reporting period. The total VOCs in this well decreased from 20 ppb to below detection limits during this reporting period.

Monitor Well WMW-2S

This shallow well is also located to the northwest of the GCC facility (across Leland Street) and at the east corner of the GCC office building, up-gradient of the onsite and offsite treatment systems. Only 1,1-DCE (1 ppb), 1,1-DCA (8 ppb), TCA (18 ppb) were detected in this well during this reporting period. Detectable concentrations of the analytes were all below MCP GW-2 risk standards. The total VOCs in this well have decreased approximately 60% in this well since the last reporting period, from 87.5 ppb to 27 ppb. Chloroethane, MtBE, *cis*—DCE, TCE and PCE, previously detected in this well in February-March 2007, were not detected in this well during this reporting period.

Monitor Well WMW-2D

This deep well is also located to the northwest of the GCC facility (across Leland Street) and to the southeast of the GCC office building, up-gradient of the onsite and offsite treatment systems and adjacent to well WMW-2S. Only 1,1-DCA (0.5 ppb) and TCA (0.7 ppb) were detected in this well during this reporting period. Detectable concentrations of the analytes were below MCP GW-2 risk standards. The total VOCs in this well have decreased approximately 96% since the last reporting period, from 31.7 ppb to 1.2 ppb. *cis*-DCE, TCE and PCE, previously detected in this well in February-March 2007, were not detected in this well during this reporting period.

Monitor Well WMW-3

This well is located at the northern corner of the GCC property, adjacent to Leland Street and to the south of the car wash, up-gradient of the onsite treatment systems. 1,1-DCA (3 ppb), *cis*-1,2-DCE (17 ppb), TCA (6 ppb), TCE (2 ppb) and PCE (3 ppb) were detected in this well. Also, Xylenes (19 ppb), Ethylbenzene (3 ppb), Isopropylbenzene (6 ppb), *n*-Propylbenzene (3 ppb), 1,3,5-Trimethylbenzene (3 ppb), 1,2,4-Trimethylbenzene (16 ppb), *sec*-Butylbenzene (0.9 ppb), 4-Isopropyltoluene (0.6 ppb) and Naphthalene (8 ppb) not previously detected in February-March 2007) were also present in this well at detectable concentrations. Detectable concentrations of these analytes were below MCP GW-3 risk standards. The total VOCs in this well have increased in this well since the last reporting period, from 59.8 ppb to 90.5 ppb. 1,1-DCE and chloroform, previously detected in this well in February-March 2007, were not detected in this well during this reporting period. The majority of the chlorinated constituents of concern in this well have decreased. The increase in the total VOCs in this well is attributed to the presence of constituents related to gasoline (e.g. xylenes).

Monitor Well WMW-4

This well is located along the northeast-central GCC property boundary, to the north and up-gradient of the GCC Warehouse and Tank Farm. 1,1-DCE (1,200 ppb), *cis*-DCE (29,000 ppb), TCA (15,000 ppb), TCE (3,200 ppb), PCE (7,900 ppb) were detected in this well. Concentrations of all detectable analytes did not exceed MCP GW-3 risk standards in this well. The total VOCs in this well have increased from 41,600 ppb to 56,300 ppb since February-March 2007.

Monitor Well WMW-5

This well is located along the southeast-central GCC property boundary, to the east and up- to cross-gradient of the GCC Warehouse and Tank Farm. 1,1-DCE (730 ppb), 1,1-DCA (470 ppb), *cis*-1,2-DCE (24,000 ppb), TCA (7,700 ppb), TCE (1,900 ppb) and PCE (1,900 ppb) were detected in this well. Concentrations of all detectable analytes did not exceed MCP GW-3 risk standards in this well. The total VOCs in this well have increased slightly from 35,780 ppb to 36,700 ppb since February-March 2007. The *cis*-1,2-DCE increased from 15,000 ppb to 24,000 ppb resulting in the increase in total VOCs in this well. *cis*-1,2-DCE is only created as a result of bioremediation of PCE, TCE and TCA.

Monitor Well WMW-6

This well is located within the heart of the onsite plume, just to the south of the GCC Warehouse and Tank Farm, in very close proximity to Galley Trench G-2 and Injection Well IW-3. Monitoring well WMW-6 is located down gradient of the tank farm, near the abandoned solvent recycling operation and an area where solvents were transferred from trucks. In February-March 2007, the following constituents of concern were detected in this well: 1,1,2-Trichlorotrifluoroethane (14,000 ppb), 1,1-DCE (1,300 ppb), *cis*-DCE (31,000 ppb), TCA (38,000 ppb), TCE (5,800 ppb) and PCE (11,000 ppb). 1,1-DCE, *cis*-DCE, TCA, TCE and PCE were detected above MCP GW-2 risk standards in this well. The total VOCs in this well was 103,900 ppb in February-March 2007. This well was not sampled for testing during this reporting period due to the presence of LNAPL in the well.

Monitor Well WMW-7

This well is located to the northwest of the GCC facility (across Leland Street) and to the southwest of the GCC office building, up-gradient of the onsite and offsite treatment systems. Only 1,1-DCA was detected in this well at a concentration of 6 ppb, well below the MCP GW-3 risk standard. The total VOCs in this well have decreased approximately 94% in this well since the last reporting period, from 93.8 ppb to 6 ppb.

Monitor Well WMW-8S

This shallow well is located along the drainage ditch, adjacent to Recovery Well RW-7, to the southeast and cross- to down-gradient of the offsite treatment system. Vinyl Chloride (1,400 ppb), 1,1-DCE (2,200 ppb), *cis*-DCE (57,000 ppb), TCA (22,000 ppb), TCE (1,100 ppb) and PCE (5,800 ppb) were detected in this well. Only the concentrations of *cis*-1,2-DCE and TCA exceed MCP GW-3 risk standards. The total VOCs in this well have increased from 87,900 ppb to 89,500 since February-March 2007, likely due to its location adjacent to recovery well RW-7 and monitor well WMW-8D, where DNAPL was present. 1,1-DCA previously detected in this well in February-March 2007, was not detected in this well during this reporting period.

Monitor Well WMW-8D

This deep well is also located along the drainage ditch, adjacent to Recovery Well RW-7, to the southeast and cross- to down-gradient of the offsite treatment system. This well was not sampled for testing during this reporting period due to the presence of DNAPL in the well.

Recovery Well RW-1

This recovery well is located at the southeast corner of the GCC property. 1,1-DCE (2,000 ppb), *cis*-DCE (27,000 ppb), TCA (33,000 ppb), TCE (8,300 ppb) and PCE (16,000 ppb) were detected in this well. TCA and TCE were detected above MCP GW-3 risk standards in this well. Detectable concentrations of the other analytes were below MCP GW-3 risk standards. The total VOCs in this well have increased since the last reporting period, from 32,090 ppb to 86,300 ppb. As this is a recovery well, the high level of constituents of concern is to be expected.

Recovery Well RW-2

This recovery well is located near the southeast corner of the GCC property. 1,1-DCE (1,100 ppb), *cis*-DCE (23,000 ppb), TCA (12,000 ppb), TCE (4,100 ppb) and PCE (11,000 ppb) were detected in this well. Detectable concentrations of these analytes were all below MCP GW-3 risk standards. The total VOCs in this well have increased in this well since the last reporting period, from 43,200 ppb to 51,200 ppb. Methylene Chloride and 1,1-DCA, previously detected in this well in February-March 2007, were not detected during this reporting period, although detection limits were high.

Recovery Well RW-3

This recovery well is located near the south-central portion of the GCC property. This recovery well is located near WMW-6 where LNAPL was detected. 1,1-DCE (2,800 ppb), *cis*-DCE (36,000 ppb), TCA (55,000 ppb), TCE (12,000 ppb) and PCE (24,000 ppb) were detected in this well. Only the concentration of TCA exceeded MCP GW-3 risk standards. The total VOCs in this well have decreased approximately 11% in this well since the last reporting period, from 227,900 ppb to 202,300 ppb. The total VOCs in this well have decreased approximately 36% in this well since the last reporting period, from 202,300 ppb to 129,800 ppb. 1,1,2-Trichlorotrifluoroethane and Methylene Chloride, previously detected in this well in February-March 2007, were not detected in this well during this reporting period.

Recovery Well RW-4

This recovery well is located near the southwest-central portion of the GCC property. During the previous reporting period (February-March 2007) Vinyl Chloride (250 ppb), 1,1-DCE (560 ppb), *cis*-DCE (15,000 ppb), TCA (5,400 ppb), TCE (17,000 ppb) and PCE (11,000 ppb) were detected in this well. Only the concentration of TCE exceeded the MCP GW-3 risk standard in this well at that time. The total VOCs in this well was 49,210 ppb during February-March 2007. This well was not sampled during this reporting period because the well pump was temporarily not operational (groundwater samples from the recovery wells are obtained through a sampling port while the pump is operating).

Recovery Well RW-5D

This well is located to the west of the surface water drainage ditch, just down-gradient of the offsite treatment system and near monitor well GZA-19DD. 1,1-

DCE (2,600 ppb), Methylene Chloride (19,000 ppb), *cis*-DCE (8,000 ppb), TCA (5,800 ppb), TCE (13,000 ppb), and PCE (43,000 ppb) were detected in this well. 1,1-DCA was also detected in this well at a concentration of 1,000 ppb. Only TCE and PCE exceeded the MCP GW-3 risk standard in this well. The total VOCs in this well have decreased approximately 38% in this well since the last reporting period, from 148,100 ppb to 92,400 ppb.

Recovery Well RW-7

This shallow well is located along the drainage ditch, adjacent to Recovery Wells WMW-8S and WMW-8D, to the southeast and cross- to down-gradient of the offsite treatment system, near monitor well WMW-8S. Vinyl Chloride (170 ppb), 1,1-DCE (210 ppb), 1,1-DCA (180 ppb), *cis*-DCE (4,300 ppb), TCA (1,900 ppb), TCE (1,800 ppb), and PCE (4,000 ppb) were detected in this well. Methylene chloride was also detected in this well at a concentration of 670 ppb. The concentration of these constituents did not exceed MCP GW-3 risk standards. The total VOCs in this well have decreased approximately 40% in this well since the last reporting period, from 21,700 ppb, to 13,230 ppb.

The current configuration of the VOC plume in the groundwater is depicted in Figure 9. The plume appears as two contiguous northwest to southeast-trending lobes: (1) a larger lobe at the northern portion of the Site at and in the vicinity of the Onsite Warehouse and Yard Area (Area 1); and (2) a smaller lobe at the southern portion of the Site at and in the vicinity of the Offsite Garage/Abandoned Field Road Area (Area 2).

The total VOC plume has diminished significantly in extent since February-March 2007. Most noticeable is the decrease in the plume for constituent concentrations between 10,000 ppb and greater than 100,000 ppb (depicted as orange and red colors on Figure 9). During the February-March 2007 reporting period, the extent of the concentration of constituents of concern between 10,000 ppb and grater than 100,000 ppb at the Onsite Warehouse and Yard Area was approximately 99,800 square feet. During the November 2007 reporting period, the extent of the plume in this area had decreased to approximately 53,000 square feet, approximately one-half of the previous size. Similarly, during the February-March 2007 reporting period, the extent of the concentration of constituents of concern between 10,000 ppb and grater than 100,000 ppb at the Offsite Garage/Abandoned Field Road Area was approximately 47,380 square feet. During the November 2007 reporting period, the extent of the plume in this

area had decreased to approximately 5,410 square feet, decreasing by approximately 88% of the previous size. It is anticipated that the plume will further diminish in size and concentration as groundwater recovery and treatment continue.

7.2.3 Historical VOC Trends in Groundwater

Overall, the individual VOC parameter concentrations detected in the monitoring wells are consistent with those anticipated as a result of the operation of the groundwater recovery and treatment systems. Groundwater VOC concentrations attributed to the operation of the bioremediation systems are discussed in Section 7.4.

7.2.4 Seasonal VOC Variation in Groundwater

Groundwater elevations across the study area are historically lower in the fall and winter (dry season) and rise during the spring and summer (wet season). Groundwater levels are characteristically higher during the late spring. Groundwater elevations observed during this reporting period are consistent with historical observations. The VOC analytical test data, as expected, continue to show no significant correlation with seasonal groundwater elevations, due in part to the fact that the highest concentrations of VOCs are in the deep wells and are not significantly impacted by seasonal fluctuations of the shallow groundwater. Web Engineering will continue to evaluate the correlation between VOC concentrations and seasonal groundwater elevations during future monitoring activities.

7.3 Sampling and Analytical Testing – Surface Water

7.3.1 Surface Water Sampling Procedures

Web Engineering typically collects three surface water samples for analytical testing. Samples are obtained on a semi-annual basis from locations SW-3, SW-10, SW-DCS-1 and SW-USA-1, as depicted in Figure 2. SW-3 is located down-gradient of the General Chemical Corporation site, at the confluence of the surface water drainage ditch and Course Brook. SW-10 is located along the surface water drainage ditch, between recovery wells RW-5 and RW-7, and to the southeast of the offsite treatment system Recharge Trench. SW-DCS-1 is located down-gradient of the General Chemical Corporation site along Course Brook,

downstream of location SW-3. SW-USA-1 is located down-gradient of the GCC site along Course Brook, downstream of location SW-DSC-1. Surface water samples were obtained on November 7, 2007 from locations SW-3, SW-DSC-1 and SW-USA-1, along Course Brook. A surface water sample was not obtained from location SW-10 (along the drainage ditch) due to frozen surface water conditions. The surface water samples are grab samples obtained at the aforementioned locations. Surface water samples are containerized in 40 ml VOA vials preserved with HCl and stored on ice pending transport to the analytical testing laboratory. The samples are transported to a MassDEP-certified laboratory in accordance with MassDEP Chain of Custody protocol. The samples are analytically tested for VOCs using EPA Method 8260B. The analytical results for each event are presented in Table 10 and the laboratory certificates of analysis/laboratory reports are presented in Appendix A. The laboratory certificates contain the trip blank results and QA/QC batch duplicate analyses.

7.3.2 Surface Water Analytical Test Results

Since December 2004, eleven VOCs including Vinyl Chloride, Chloroethane, 1,1-DCE, Methylene Chloride, *trans*-1,2-DCE, 1,1-DCA, *cis*-DCE, TCA, TCE, PCE and Toluene have been detected above method detection limits in the surface samples. The total VOC concentrations from July 2004 to August 2006 ranged from ND to 1,519 ug/l (ppb) at SW-3; from 1,395 ug/l (ppb) to 749 ug/l (ppb) at SW-10; from ND to 5 ug/l (ppb) at SW-DCS-1; and from ND to 33 ug/l (ppb) back to ND at SW-USA-1. No sheen, LNAPL was observed in any of the surface water samples between July 2004 and December 2007.

Since there are no MCP-based risk standards established for constituents of concern in surface water, Web Engineering attempted to draw a comparison of relative risk by comparing the detected concentrations of individual VOC constituents in the surface water sample to United States Environmental Protection Agency (USEPA) ECOTOX Thresholds. The USEPA ECOTOX Thresholds are benchmark values used in ecological risk assessment by the USEPA. The ECOTOX Thresholds are defined as media-specific contaminant concentrations above which there is sufficient concern regarding potentially adverse ecological effects to warrant further site investigation (*USEPA, ECO Update, Intermittent Bulletin, Volume 3, Number 2, January 1996*). Ecotox values have been determined for 1,1-DCA (47 ug/l), TCA (62 ug/l), TCE (350 ug/l), PCE (120 ug/l), Toluene (130 ug/l), Xylenes (1.8 ug/l) and Naphthalene (24 ug/l).

Location SW-3

During this reporting period *cis*-DCE was detected at a concentration of 13 ppb (a decrease from 950 ppb in August 2006), TCE was detected at a concentration of 5 ppb (a decrease from 43 ppb in August 2006) and PCE was detected at a concentration of 6 ppb (a decrease from 10 ppb in August 2006). The concentrations of these analytes do not exceed the USEPA ECOTOX Thresholds. The total VOC concentration at this location was 24 ppb (a significant decrease from 1,519 ppb in August 2006).

Location SW-10

This location was not sampled due to frozen surface water conditions.

Location SW-DSC-1

During this reporting period only *cis*-DCE was detected at a concentration of 5 ppb (a slight increase from 2 ppb in August 2006). There is no ECOTOX standard for cis-DCE. Both TCE (detected at 1 ppb in August 2006) and PCE (detected at 2 ppb in August 2006) were not detected during this round of sampling and testing. The total VOC concentration at this location was 5 ppb (no change in total VOC concentration since August 2006).

Location SW-USA-1

During this reporting period *cis*-DCE was detected at a concentration of 5 ppb (an increase from <0.5 ppb in August 2006) and PCE was detected at a concentration of 3 ppb (an increase from <0.5 ppb in August 2006). The concentration of PCE does not exceed the USEPA ECOTOX Threshold of 120 ppb. The total VOC concentration at this location was 8 ppb (an increase from below detection limits in August 2006).

7.3.3 Historical VOC Trends in Surface Water

Generally speaking declining concentrations of VOCs are observed at the surface water sampling locations. The total VOC concentrations are lower during the summer and higher during the winter. The lower summer levels are attributable to higher volatilization due to higher ambient air and water temperature and/or an increase in biological activity resulting in increased degradation of organic materials. Overall, the higher VOC surface water concentrations are at the upgradient end of the surface water drainage ditch that parallels the Exelon access

road and decrease to very low or non-detect levels where the drainage ditch flows into Course Brook. The natural breakdown and biodegradation of the VOCs is evident in the surface water sample results. Minor fluctuations in constituent concentrations are expected. The PCE and TCE levels are low to non-detect; the highest concentrations are the breakdown products such as *cis*-DCE. Surface water temperatures are highest in July and August and lowest during the winter months.

7.3.4 Seasonal VOC Variation in Surface Water

Seasonal VOC concentrations correlate directly with air and water temperature; as the air and water temperature increase, the rate of VOC volatilization also increases, resulting in lower dissolved VOC concentrations in the surface water samples. Surface water temperatures are highest in July and August and lowest during the winter months of December, January and February. VOCs also tend to be trapped under the ice cover during the winter. Surface water VOC concentrations are generally lower during the summer sampling rounds, reflecting both the seasonal trend and the long-term trend. Surface water samples will continue to be collected semi-annually at the four established locations. Each sample will be analyzed for VOCs by EPA Method 8260B.

7.4 Sampling and Analytical Testing – Treatment System

7.4.1 Treatment System Sampling Procedures

Web Engineering collects water samples from the onsite and offsite treatment system effluent for analytical testing. Samples obtained on a quarterly basis from the influent ports on the recovery wells, the effluent ports of the bioreactors and the effluent ports of the carbon vessels to monitor the efficacy of the treatment systems. The water samples are containerized in 40 ml VOA vials preserved with HCl and stored on ice pending transport to the analytical testing laboratory. The samples are transported to a MassDEP-certified laboratory in accordance with MassDEP Chain of Custody protocol. The samples are analytically tested for VOCs using EPA Method 8260B.

Treatment system samples were obtained on March 9, August 8 and November 21, 2007. During this reporting period, Onsite Warehouse/Yard Area treatment system samples were obtained from recovery wells RW-1, RW-2 and RW-3; from bioreactors Bio-1, Bio-2 and Bio-3; and from carbon vessels CV-1 and CV-2.

Offsite Garage/Abandoned Field Road Area treatment system samples were obtained from recovery wells RW-5D and RW-7; from bioreactors Bio-1, Bio-2 and Bio-3; and from carbon vessels CV-1 and CV-2. The analytical results for each event are presented in Table 9a (for the Onsite Warehouse/Yard Area treatment system) and in Table 9b (for the Offsite Garage/Abandoned Field Road Area treatment system) The laboratory certificates of analysis/laboratory reports are presented in Appendix B. The laboratory certificates also contain the QA/QC batch duplicate analyses.

7.4.2 Treatment System Analytical Test Results

Onsite Warehouse/Yard Area System

The onsite recovery wells (RW-1, RW-2, RW-3, and RW-4) have been pumping at rates between 0.81 to 4.82 gallons per minute (gpm). At the current pumping rates the four 40-foot deep wells have cones of influence that capture the contaminated groundwater downgradient of the property. The contaminated groundwater is pumped through the three bioreactor tanks and re-injected up-gradient on the GCC property. This system operated effectively as a closed loop recirculation treatment system during this reporting period. The well yields are excellent, Injection Galley # 1 is functioning according to plan although we do observe groundwater mounding in areas of recharge. Possible groundwater mounding in the vicinity of Injection Galley #2 may be affecting monitor well GZ-6 and a scope of work is being developed to analyze this.

The onsite system is operating according to plan. Groundwater analysis data confirm that accelerated biodegradation is now occurring. Contamination beneath the warehouse is now being mobilized and captured in the wells. Significant biological growth continues to occur in all three bioreactor tanks, indicating that the microbes are biodegrading the solvents. We observe increases and decreases in total VOC concentrations and this is to be expected until the plume becomes stabilized.

Recovery Well RW-1

The detectable constituents of concern in this well are 1,1-DCE (increasing from 790 ppb in March 2007 to 2,000 ppb in November 2007), *cis*-DCE (increasing from 12,000 ppb in March 2007 to 27,000 ppb in November 2007), TCA (increasing from 10,000 ppb in March 2007 to 33,000 ppb in November 2007), TCE (increasing from 5,100 ppb in March 2007 to 8,300 ppb in November 2007), and PCE (increasing from 4,200 ppb in March 2007 to 16,000 ppb in November

2007). 1,1-DCA was detected at 320 ppb in August 2007 but was not detected in November 2007. The total VOC concentration in recovery well RW-1 increased from 32,090 ppb in March 2007 to 86,300 ppb in November 2007, indicating continued capture of the contaminant plume via the recovery well.

Recovery Well RW-2

The detectable constituents of concern in this well are 1,1-DCE (1,100 – 1,200 ppb), *cis*-DCE (increasing from 20,000 ppb in March 2007 to 23,000 ppb in November 2007), TCA (increasing from 11,000 ppb in March 2007 to 12,000 ppb in November 2007), TCE (decreasing from 4,800 ppb in March 2007 to 4,100 ppb in November 2007), and PCE (increasing from 4,100 ppb in March 2007 to 11,000 ppb in November 2007). 1,1-DCA was detected at 300 ppb in March2007 but was not detected in August or November 2007. Methylene chloride was detected at 1,900 ppb in March 2007, but was not detected in August or November 2007. The total VOC concentration in recovery well RW-2 increased from 43,200 ppb in March 2007 to 51,200 ppb in November 2007, indicating continued capture of the contaminant plume via the recovery well. Some detection limits are high and may mask actual constituent concentrations.

Recovery Well RW-3

The detectable constituents of concern in this well are 1,1-DCE (decreasing from 5,400 ppb in March to 2,800 ppb in November 2007), *cis*-DCE (decreasing from 52,000 ppb in March 2007 to 36,000 ppb in November 2007), TCA (decreasing from 70,000 ppb in March 2007 to 55,000 ppb in November 2007), TCE (decreasing from 19,000 ppb in March 2007 to 12,000 ppb in November 2007), and PCE (decreasing from 30,000 ppb in March 2007 to 24,000 ppb in November 2007). 1,1-DCA was not detected in this well during this reporting period. Methylene Chloride was detected at 9,900 ppb in March 2007 and 6,900 ppb in August 2007, but was not detected in November 2007. The total VOC concentration in recovery well RW-3 decreased from 202,300 ppb in March 2007 to 129,800 ppb in November 2007, indicating continued capture of the contaminant plume via the recovery well and effective *in situ* and *ex situ* biodegradation of the constituents of concern.

Recovery Well RW-4

The detectable constituents of concern in this well are 1,1-DCE (increasing from 560 ppb in March to 930 ppb in August 2007), *cis*-DCE (increasing from 15,000

ppb in March 2007 to 23,000 ppb in August 2007), TCA (increasing from 5,400 ppb in March 2007 to 8,400 ppb in August 2007), TCE (increasing from 17,000 ppb in March 2007 to 21,000 ppb in August 2007), and PCE (11,000 ppb in March and August 2007). Also, Vinyl Chloride was detected at 250 ppb in March 2007 but not detected in August 2007. 1,1-DCA was not detected in March 2007 but was detected at a concentration of 260 ppb in August 2007. The total VOC concentration in recovery well RW-4 increased from 49,210 ppb in March 2007 to 64,590 ppb in August 2007, indicating continued capture of the contaminant plume via the recovery well.

Note: RW-4 was not sampled in November 2007 because the well was temporarily out of service for maintenance.

Bioreactor (Bio-)-1

The detectable constituents of concern in this bioreactor are 1,1-DCE (increasing from 1,500 ppb in March to 1,700 ppb in November 2007), *cis*-DCE (increasing from 22,000 ppb in March 2007 to 25,000 ppb in November 2007), TCA (increasing from 18,000 ppb in March 2007 to 29,000 ppb in November 2007), TCE (decreasing from 9,800 ppb in March 2007 to 7,300 ppb in November 2007), and PCE (increasing from 10,000 ppb in March to 13,000 in November 2007). Also, Vinyl Chloride was detected at 250 ppb in March 2007 but not detected in August 2007. Methylene Chloride was detected at 3,400 ppb in March 2007 and at 2,600 ppb in August 2007, but was not detected in November 2007. Similarly, 1,1-DCA was detected at 320 ppb in March 2007 and at 370 ppb in August 2007, but was not detected in November 2007. 1,1,2-Trichlorotrifluoroethane was detected at 4,000 ppb in March 2007 and at 3,400 ppb in August 2007, but was not detected in November 2007 due to high detection limits. The total VOC concentration in Bio-1 increased from 69,020 ppb in March 2007 to 76,000 ppb in August 2007.

Bioreactor (Bio-)-2

The detectable constituents of concern in this bioreactor are 1,1-DCE (increasing from 1,200 ppb in March to 2,000 ppb in November 2007), Methylene Chloride (increasing from 2,400 ppb in March to 2,800 ppb in November 2007), 1,1-DCA (increasing from 300 ppb in March to 430 ppb in November 2007), *cis*-DCE (increasing from 19,000 ppb in March 2007 to 28,000 ppb in November 2007), TCA (increasing from 17,000 ppb in March 2007 to 37,000 ppb in November 2007), TCE (increasing from 8,300 ppb in March 2007 to 9,100 ppb in November 2007), PCE (increasing from 9,000 ppb in March to 16,000 in November 2007)

and 1,1,2-Trichlorotrifluoroethane (increasing from 3,500 ppb in March 2007 to 4,400 ppb in November 2007). Also, Vinyl Chloride was detected at 72 ppb in August 2007 but not detected in November 2007 due to high detection limits. Toluene, Xylenes and Naphthalene were detected in August 2007 at concentrations of 120 ppb, 108 ppb and 34 ppb, respectively but these analytes were not detected in November 2007. The total VOC concentration in Bio-2 increased from 60,700 ppb in March 2007 to 99,730 ppb in August 2007.

Bioreactor (Bio-)-3

The detectable constituents of concern in this bioreactor are 1,1-DCE (increasing from 1,000 ppb in March to 1,800 ppb in November 2007), Methylene Chloride (increasing from 2,100 ppb in March to 2,500 ppb in November 2007), *cis*-DCE (increasing from 18,000 ppb in March 2007 to 26,000 ppb in November 2007), TCA (increasing from 15,000 ppb in March 2007 to 32,000 ppb in November 2007), TCE (increasing from 7,400 ppb in March 2007 to 8,000 ppb in November 2007) and PCE (increasing from 8,200 ppb in March to 14,000 in November 2007). 1,1-DCA and Methylene Chloride were not detected in Bio-3 during this reporting period. The total VOC concentration in Bio-3 increased from 51,700 ppb in March 2007 to 84,300 ppb in August 2007.

Carbon Vessel (CV-)-1

CV-1 was sampled in November 2007. The detectable constituents of concern in the effluent of this carbon vessel are 1,1-DCE (1,800 ppb), *cis*-DCE (26,000 ppb), TCA (31,000 ppb), TCE (7,600 ppb) and PCE (13,000). The total VOC concentration in CV-1 was 79,400 ppb.

Carbon Vessel (CV-)-2

CV-2 was sampled in August and November 2007. The detectable constituents of concern in the effluent of this carbon vessel are 1,1-DCE (decreasing from 2,100 ppb in August to 1,400 ppb in November 2007), *cis*-DCE (decreasing from 33,000 ppb in August 2007 to 26,000 ppb in November 2007), TCA (increasing from 23,000 ppb in August 2007 to 29,000 ppb in November 2007), TCE (increasing from 2,900 ppb in August 2007 to 9,300 ppb in November 2007) and PCE (not detected in August 2007 but increasing to 2,200 in November 2007). 1,1-DCA and Methylene Chloride were also not detected in CV-2 during this reporting period. The total VOC concentration in CV-2 increased from 61,000 ppb in August 2007 to 67,900 ppb in November 2007.

The recovery wells are removing high concentrations of VOCs and the concentrations have generally increased since startup. The groundwater contours and the high concentration of VOCs recovered indicate that the recovery wells have a cone of influence in the up gradient area of the site and are operating as designed.

The average influent VOC concentration from the 4 onsite recovery wells between March and November 2007 was 86,719 ppb. The average effluent VOC concentration from the Bioreactors was 74,812 ppb, an approximate 14% reduction in the total VOCs. The very high concentrations of *cis*-DCE indicate that bioremediation is taking place within the treatment system. *cis*-DCE is only produced through the bioremediation process. The *cis*-1,2-DCE will eventually degrade to vinyl chloride and ethene. We also see indications of very high levels of *cis*-DCE in the recovery wells which is an indicator of biodegradation that is occurring within the subsurface. Eventually, the compounds become Chloroethane, Vinyl Chloride, Ethane or Ethene and ultimately carbon dioxide.

Several of the groundwater monitoring wells provide direct evidence of *in situ* biodegradation. For example, in well WMW-6 (located onsite near RW-3) the PCE decreased from 13,000 ppb in August 2006 to 11,000 ppb in February-March 2007. Also, TCE decreased from 13,000 ppb in August 2006 to 5,800 ppb in February-March 2007. At the same time the *cis*-DCE maintained a high concentration of 32,000 ppb and 31,000 ppb in August 2006 and February-March 2007. Monitoring well WMW-6 is positioned within the chlorinated solvent plume source area, and will continue to be used to evaluate the biodegradation effectiveness.

The onsite bioreactor system contains approximately 900 gallons of water. At a flow rate of 5 gpm, the residence time is 180 minutes. The circulation of water through the earth is also part of the treatment system. The results indicate that bioremediation is occurring. The bioreactors are in place to add microbes, nutrient and biocatalyst and to act as a capacitor between the recovery wells and the galleys and injection wells. The bioreactors also provide for the measurement of the efficacy of the system. The granulated activated carbon vessels are also part of the treatment system in that the carbon provides sites for the microbes as the carbon absorbs and desorbs organic molecules.

Offsite Garage/Abandoned Field Road Area System

The offsite recovery wells (RW-5D and RW-7) have been pumping continuously at rates between 0.28 to 2.76 gallons per minute (gpm). The contaminated groundwater is pumped through the three bioreactor tanks and re-injected up-gradient into a Recharge Trench to the southwest of the GCC property. The well yields are excellent and the Recharge Trench is functioning according to plan.

The offsite system is operating according to plan. Visual observations and groundwater analysis data confirm that accelerated biodegradation is also occurring at the offsite area. Contamination is also being mobilized and captured in the two recovery wells. Significant biological growth continues to occur in all three bioreactor tanks, indicating that the microbes are biodegrading the solvents.

Recovery Well RW-5D

The detectable constituents of concern in this well are 1,1-DCE (decreasing from 3,100 ppb in March 2007 to 2,600 ppb in November 2007), Methylene Chloride (decreasing from 28,000 ppb in March 2007 to 19,000 ppb in November 2007), *cis*-DCE (decreasing from 11,000 ppb in March 2007 to 1,000 ppb in November 2007), TCA (decreasing from 8,000 ppb in March 2007 to 5,800 ppb in November 2007), TCE (decreasing from 20,000 ppb in March 2007 to 13,000 ppb in November 2007), and PCE (decreasing from 78,000 ppb in March 2007 to 43,000 ppb in November 2007). 1,1-DCA was detected at 1,000 ppb in November 2007. The total VOC concentration in recovery well RW-5D decreased from 148,100 ppb in March 2007 to 92,400 ppb in November 2007, indicating continued capture of a portion of the contaminant plume via the recovery well and considerable biodegradation in the area.

Recovery Well RW-7

The detectable constituents of concern in this well are Vinyl Chloride (decreasing from 930 ppb in March 2007 to 170 ppb in November 2007), 1,1-DCE

(decreasing from 340 ppb in March 2007 to 210 ppb in November 2007), 1,1-DCA (decreasing from 930 ppb in March 2007 to 180 ppb in November 2007), *cis*-DCE (decreasing from 7,400 ppb in March 2007 to 4,300 ppb in November 2007), TCA (decreasing from 2,900 ppb in March 2007 to 1,900 ppb in November 2007), TCE (decreasing from 2,600 ppb in March 2007 to 1,800 ppb in November 2007), and PCE (decreasing from 6,600 ppb in March 2007 to 4000 ppb in November 2007). Methylene Chloride was detected at 670 ppb in November 2007. The total VOC concentration in recovery well RW-7decreased from 21,700 ppb in March 2007 to 13,230 ppb in November 2007, indicating continued capture of the contaminant plume via the recovery well and considerable biodegradation in the area.

Bioreactor (Bio-)-1

The detectable constituents of concern in this bioreactor are Methylene Chloride (decreasing from 10,000 ppb in March to 8,400 ppb in November 2007), *cis*-DCE (decreasing from 8,500 ppb in March 2007 to 5,800 ppb in November 2007), TCA (decreasing from 4,400 ppb in March 2007 to 3,500 ppb in November 2007), TCE (decreasing from 8,400 ppb in March 2007 to 6,100 ppb in November 2007), and PCE (decreasing from 28,000 ppb in March to 19,000 in November 2007). Also, 1,1-DCE was detected at 1,300 ppb in March 2007 and decreasing to 870 ppb in August 2007, but not detected in November 2007. Similarly, 1,1-DCA was detected at 970 ppb in March 2007 and at 550 ppb in August 2007, but was not detected in November 2007. The total VOC concentration in Bio-1 decreased from 62,570 ppb in March 2007 to 42,800 ppb in August 2007.

Bioreactor (Bio-)-2

The effluent from this Bioreactor was tested in March and November 2007. The detectable constituents of concern in this bioreactor are 1,1-DCE (decreasing from 1,100 ppb in March to 730 ppb in November 2007), Methylene Chloride (decreasing from 9,900 ppb in March to 6,400 ppb in November 2007), *cis*-DCE (decreasing from 7,900 ppb in March 2007 to 5,100 ppb in November 2007), TCA (decreasing from 4,000 ppb in March 2007 to 2,900 ppb in November 2007), TCE (decreasing from 7,900 ppb in March 2007 to 5,300 ppb in November 2007), and PCE (decreasing from 25,000 ppb in March to 16,000 in November 2007). Also, Vinyl Chloride was detected at a concentration of 420 ppb in March 2007 but was not detected in November 2007. Similarly, 1,1-DCA was detected at 910 ppb in March 2007 but was not detected in November 2007.

The total VOC concentration in Bio-2 decreased from 57,130 ppb in March 2007 to 36,430 ppb in November 2007.

Bioreactor (Bio-)-3

The detectable constituents of concern in this bioreactor are Vinyl Chloride (ranging from 270-260 between March and November 2007), 1,1-DCE (increasing from 680 ppb in March to 2,000 ppb in November 2007), Methylene Chloride (increasing from 8,800 ppb in March to 18,000 ppb in November 2007), 1,1-DCA (increasing from 710 ppb in March to 1,300 ppb in November 2007), *cis*-DCE (increasing from 6,500 ppb in March 2007 to 18,000 ppb in November 2007), TCA (increasing from 2,700 ppb in March 2007 to 8,400 ppb in November 2007), TCE (increasing from 6,000 ppb in March 2007 to 16,000 ppb in November 2007), and PCE (increasing from 19,000 ppb in March to 45,000 in November 2007). The total VOC concentration in Bio-3 increased from 44,660 ppb in March 2007 to 108,960 ppb in November2007.

Carbon Vessel (CV-)-1

CV-1 was sampled in March and November 2007. The detectable constituents of concern in the effluent of this carbon vessel are *cis*-DCE (7,400 ppb in March and 4,700 ppb in November 2007), TCA (1,500 ppb in March and 2,200 ppb in November 2007), TCE (2,000 ppb in March and 4,500 ppb in November 2007), and PCE (880 ppb in March and 9,900 ppb in November 2007). 1,1-DCE was detected at a concentration of 790 ppb in March 2007 but was not detected in November 2007. Similarly, 1,1-DCA was detected at a concentration of 730 ppb in March 2007 but was not detected in November 2007. The total VOC concentration in CV-1 increased from 13,300 ppb in March 2007 to 21,300 ppb in November 2007.

Carbon Vessel (CV-)-2

CV-2 was sampled in March, August and November 2007. The detectable constituents of concern in the effluent of this carbon vessel are 1,1-DCE (increasing from 770 ppb in March to 1,000 ppb in November 2007), 1,1-DCA (decreasing from 700 ppb in March to 650 ppb in November 2007), *cis*-DCE (increasing from 6,800 ppb in March 2007 to 9,300 ppb in November 2007), TCA (increasing from 2,200 ppb in March 2007 to 4,800 ppb in November 2007), TCE (increasing from 5,400 ppb in March 2007 to 10,000 ppb in November 2007) and PCE (decreasing from 16,000 in March to 9,300 ppb in November 2007). The

total VOC concentration in CV-2 increased from 27,870 ppb in August 2007 to 35,050 ppb in November 2007. Vinyl Chloride was detected at a concentration of 260 ppb in March 2007 but was not detected in November 2007 likely due to high detection limits.

The offsite recovery wells are removing high concentrations of VOCs and the concentrations have generally increased since startup. The groundwater contours and the high concentration of VOCs recovered indicate that the recovery wells have a cone of influence in the offsite area of the site and are operating as designed.

The average influent VOC concentration from the 2 offsite recovery wells between March and November 2007 was 70,705 ppb. The average effluent VOC concentration from the Bioreactors was 55,578 ppb, a 21.40% reduction in the total VOCs. As observed in the onsite treatment system, the widespread decrease in the concentration of the various constituents of concern between March and November 2007, coupled with the very high concentrations of *cis*-DCE indicate that significantly active bioremediation is taking place within the treatment system. We also see indications of elevated levels of cis-DCE in the recovery wells and these elevated levels of *cis*-DCE in the recovered groundwater is the best evidence at this time of the biodegradation that is also occurring within the subsurface.

Several of the groundwater monitoring wells provide direct evidence of *in situ* biodegradation. For example, in well GZ-19DD (located offsite near RW-5D) the PCE decreased since October 2005, from 55,000 ppb to 32,000 ppb in November 2007. Also, TCA has decreased from 25,000 ppb in August 2006 to 7,700 ppb in November 2007 and TCE has decreased from 25,000 ppb in August 2006 to 4,800 ppb in November 2007. At the same time the *cis*-DCE maintained a high concentration of 29,000 ppb in August 2006 and 30,000 ppb in November 2007 (with a temporary decrease in February-March 2007). Monitoring well GZ-19DD is positioned within the offsite chlorinated solvent plume source area, and will continue to be used to evaluate the biodegradation effectiveness.

The offsite bioreactor system contains approximately 900 gallons of water. At a flow rate of 5 gpm, the residence time is 180 minutes. The circulation of water through the earth is also part of the treatment system. The results indicate that bioremediation is occurring. The bioreactors are in place to add microbes, nutrient and biocatalyst and to act as a capacitor between the recovery wells and the galleys and injection wells. The bioreactors also provide for the measurement of the efficacy of the system. The granulated activated carbon

vessels are also part of the treatment system in that the carbon provides sites for the microbes as the carbon absorbs and desorbs organic molecules.

7.5 Data Usability and QA/QC Data

In accordance with the MassDEP Decision with Modifications dated November 2, 2000, this report includes a discussion and evaluation of the quality and usability of the data. Included in this evaluation are a review of matrix spike and surrogate recoveries and a discussion of elevated detection limits. Several groundwater samples and one surface water sample had elevated limits of detection due to required dilutions. This is normal for these samples given the high historical VOC concentrations detected in previous sampling rounds. The monitoring wells and surface water samples with elevated MDLs had also been diluted in prior sampling rounds due to elevated VOCs. Dilution of samples is a normal laboratory procedure performed to reduce sample concentrations to levels that fall within the calibration range of the instrument. The laboratory certificates of analysis contain a narrative discussion of the dilution.

The lab blank analyses for VOC samples analyzed in the same batch as the GCC samples detected no VOCs. Several of the Laboratory Control Sample/Laboratory Control Sample Data (LCS/LCSD) quality assurance batch analyses had either low recoveries or high recoveries for several "difficult analytes" that fell outside the 70 – 130% QC criteria. These recovery rates do no invalidate the data usability, given the large historical database for each of the sampling locations. The range of LCS/LCSD recoveries has not created the potential for false negatives or false positives that would impact the overall remediation plan or plume delineation.

All samples were received intact at the laboratory with temperatures below 6 degrees Centigrade.

Based on review of field work and laboratory analyses it is our opinion that the analytical data obtained during the well gauging and/or monitoring activities at the Site contain the level of support and documentation necessary to satisfy the regulatory requirements of the MCP, using tools and guidelines contained in the Compendium of Analytical Methods, and other appropriate and scientifically sound procedures and techniques. Analytical data certification is included in each analytical laboratory report. Pursuant to Section 310 CMR 40.0017 of the MCP, "any person undertaking response actions under the provisions of the MCP shall ensure that the analytical and environmental monitoring data used in support of recommendations, conclusions, or Licensed Site Professional (LSP)

Opinions with respect to assessment, removal or containment actions are scientifically valid and defensible, and a level of precision of accuracy commensurate with its stated or intended use". An evaluation of the field procedures performed during the well gauging and/pr monitoring activities as well as an evaluation of the overall quality and suitability of data utilized to support site characterization decisions and opinions at this disposal site have been adequately performed. Accordingly, it is our opinion that the field and laboratory data sets adequately meet specific site characterization needs and data quality objectives. Further, utilizing the Conceptual Site Modeling approach, "laboratory" data and "field/screening", it is our opinion that the field and laboratory data is representative of the type, location and concentration of OHM at the site.

7.6 Detection Monitoring Program

7.6.1 Groundwater Elevation Monitoring

Groundwater gauging and elevation monitoring will continue to be performed on a quarterly basis on the entire monitoring well and surface water location network. Quarterly groundwater elevations will be evaluated and contour maps of the Onsite area will be prepared on a semi-annual basis to evaluate the cumulative effects of groundwater drawdown and mounding from the bioremediation system recovery wells and galleys, respectively. Groundwater maps of the entire study area will be prepared annually for reporting purposes. Groundwater elevation monitoring and gauging will be reported in the semi-annual Monitoring and Performance status reports.

7.6.2 Surface Water Sampling Schedule

Surface water samples will continue to be collected semi-annually at the four established locations. Each sample will be analytically tested for VOCs using EPA Method 8260B. The results of the surface water sampling and testing will be documented in the semi-annual Monitoring and Performance status reports.

7.6.3 Groundwater Sampling Schedule

Groundwater water samples will continue to be collected semi-annually at established locations. Each sample will be analytically tested for VOCs using EPA Method 8260B. The results of the groundwater sampling and testing will be documented in the semi-annual Monitoring and Performance status reports.

7.6.4 Treatment System Sampling Schedule

The bioremediation system recovery wells and bioreactor tanks will be sampled on a semi-annual basis and analyzed for VOCs using EPA Method 8260B. The sample dates will be scheduled to coincide with the groundwater elevation monitoring and groundwater/surface water sampling schedule. The results of the treatment system sampling and testing will be documented in the semi-annual Monitoring and Performance status reports.

8.0 PUBLIC INVOLVEMENT

Public notifications and submittal of documents are provided in accordance with the GCC operating license and as agreed upon by General Chemical Corporation, Web Engineering and the MassDEP.

9.0 LIMITATIONS

9.1 Limitation

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants and LSPs practicing in this or similar locations. This report has been prepared for General Chemical Corporation and the Massachusetts Department of Environmental Protection. The conclusions contained in this report are based on the data contained herein, and our best judgment. No warranty, expressed or implied, is made as to the professional advice contained in this report. This report has not been prepared for use by other parties and may not contain sufficient information for other parties or uses.

9.2 Uncertainty Analysis

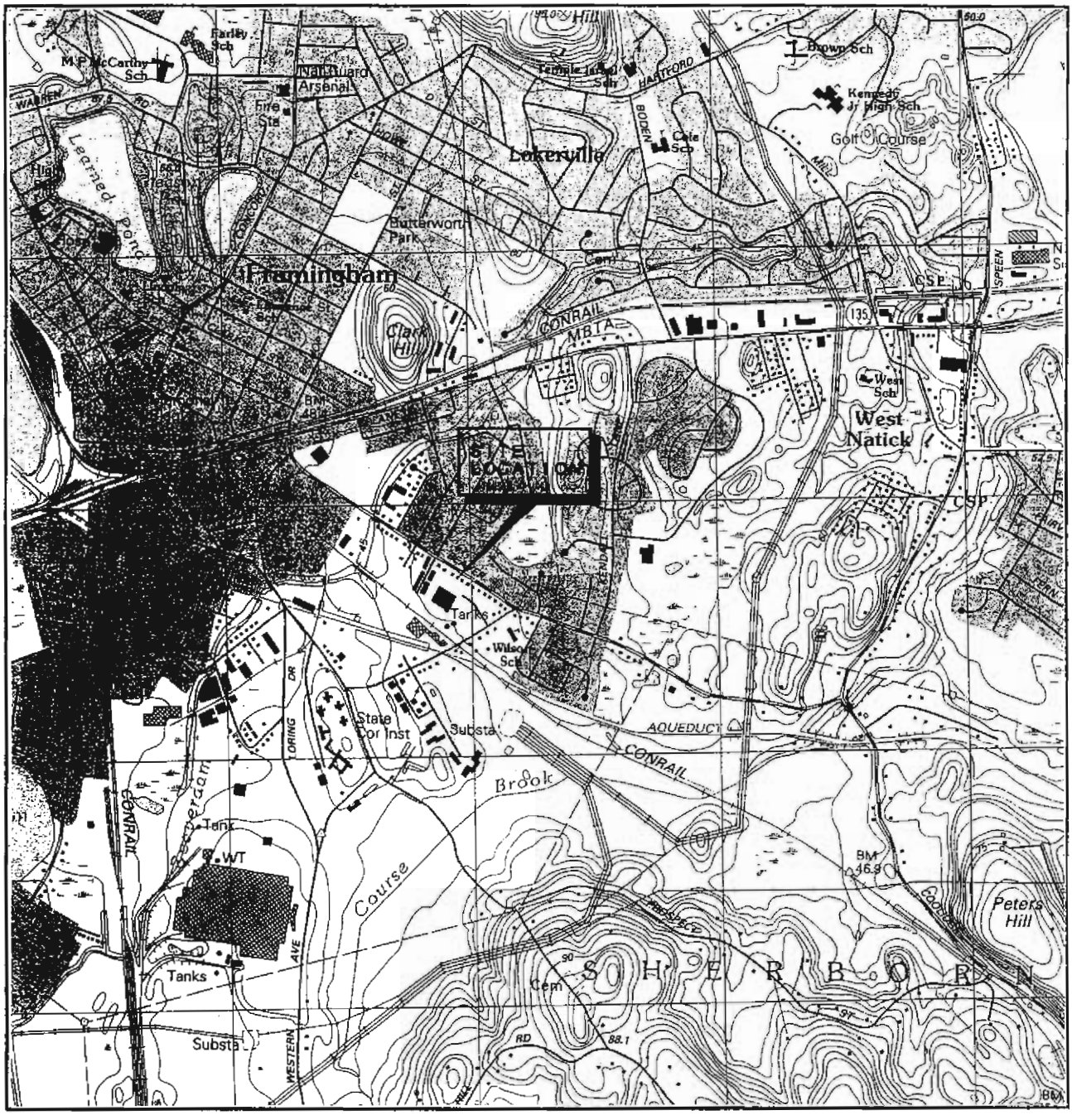
Careful consideration was given to uncertainty in sample acquisition, analytical testing of soil and groundwater samples, calculation of exposure point concentrations, and risk assumptions. In the interest of protecting health, safety, public welfare and the environment, conservative parameter estimates are used to account for such uncertainties.

Hydrogeologic Characteristics

There is uncertainty with respect to true depths to groundwater and direction of the groundwater gradient. Apparent groundwater levels and gradients were determined from single gauging events.

True groundwater levels and gradients would need to be obtained through several gauging events over time, and in a manner to compensate for changing subsurface soil conditions (e. g. soil flooding and drainage). The groundwater levels and gradients at the Site may also be influenced by the presence of subsurface stratigraphic barriers. Groundwater levels and gradients reported in this report represent observations for a single point in time, and in consideration of local presumed topographic gradient.

FIGURES



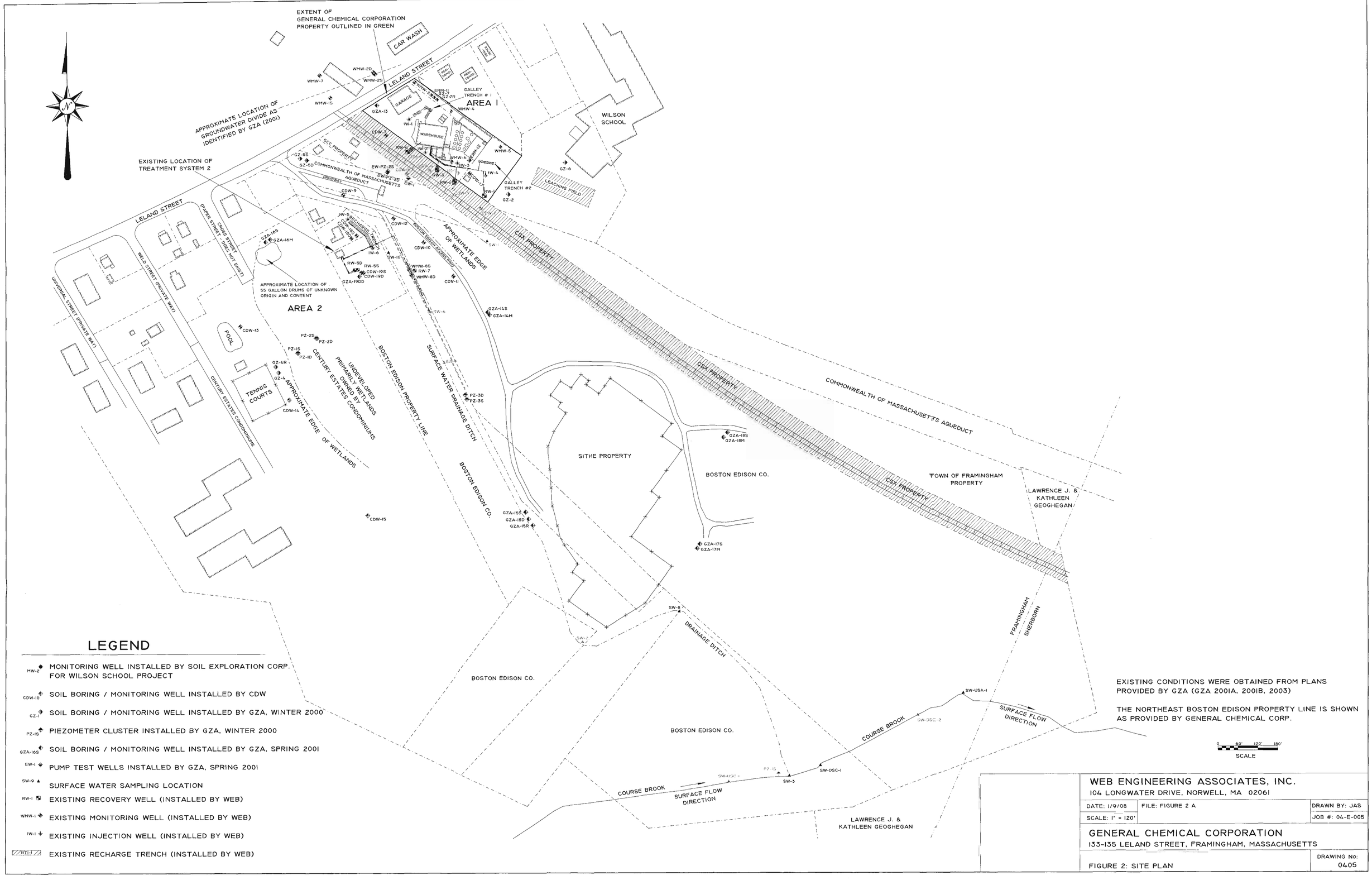
Source: U.S. Geological Survey
1:25000 Quadrangle
Framingham, MA
(1987)

Approximate Scale (feet)

0 1000 2000 3000 4000 5000

North

Web Engineering Associates, Inc. 104 Longwater Drive Norwell, Massachusetts	**SITE LOCATION MAP** GENERAL CHEMICAL CORPORATION 133-135 Leland Street Framingham, Massachusetts	**FIGURE** **1**
PROJECT NO. 04-E-005		



LEGEND

- MW-2 ◆ MONITORING WELL INSTALLED BY SOIL EXPLORATION CORP. FOR WILSON SCHOOL PROJECT
- CDW-10 SOIL BORING / MONITORING WELL INSTALLED BY CDW
- GZ-1 SOIL BORING / MONITORING WELL INSTALLED BY GZA, WINTER 2000
- PZ-1S PIEZOMETER CLUSTER INSTALLED BY GZA, WINTER 2000
- GZA-16S SOIL BORING / MONITORING WELL INSTALLED BY GZA, SPRING 2001
- EW-1 PUMP TEST WELLS INSTALLED BY GZA, SPRING 2001
- SW-9 ▲ SURFACE WATER SAMPLING LOCATION
- RW-1 EXISTING RECOVERY WELL (INSTALLED BY WEB)
- WMW-1 EXISTING MONITORING WELL (INSTALLED BY WEB)
- IW-1 EXISTING INJECTION WELL (INSTALLED BY WEB)
- RTI-1 EXISTING RECHARGE TRENCH (INSTALLED BY WEB)

EXISTING CONDITIONS WERE OBTAINED FROM PLANS PROVIDED BY GZA (GZA 2001A, 2001B, 2003)

THE NORTHEAST BOSTON EDISON PROPERTY LINE IS SHOWN AS PROVIDED BY GENERAL CHEMICAL CORP.

SCALE

WEB ENGINEERING ASSOCIATES, INC.
104 LONGWATER DRIVE, NORWELL, MA 02061

DATE: 1/9/08	FILE: FIGURE 2 A	DRAWN BY: JAS
SCALE: 1" = 120'		JOB #: 04-E-005

GENERAL CHEMICAL CORPORATION
133-135 LELAND STREET, FRAMINGHAM, MASSACHUSETTS

FIGURE 2: SITE PLAN

DRAWING No: 0405

LEGEND

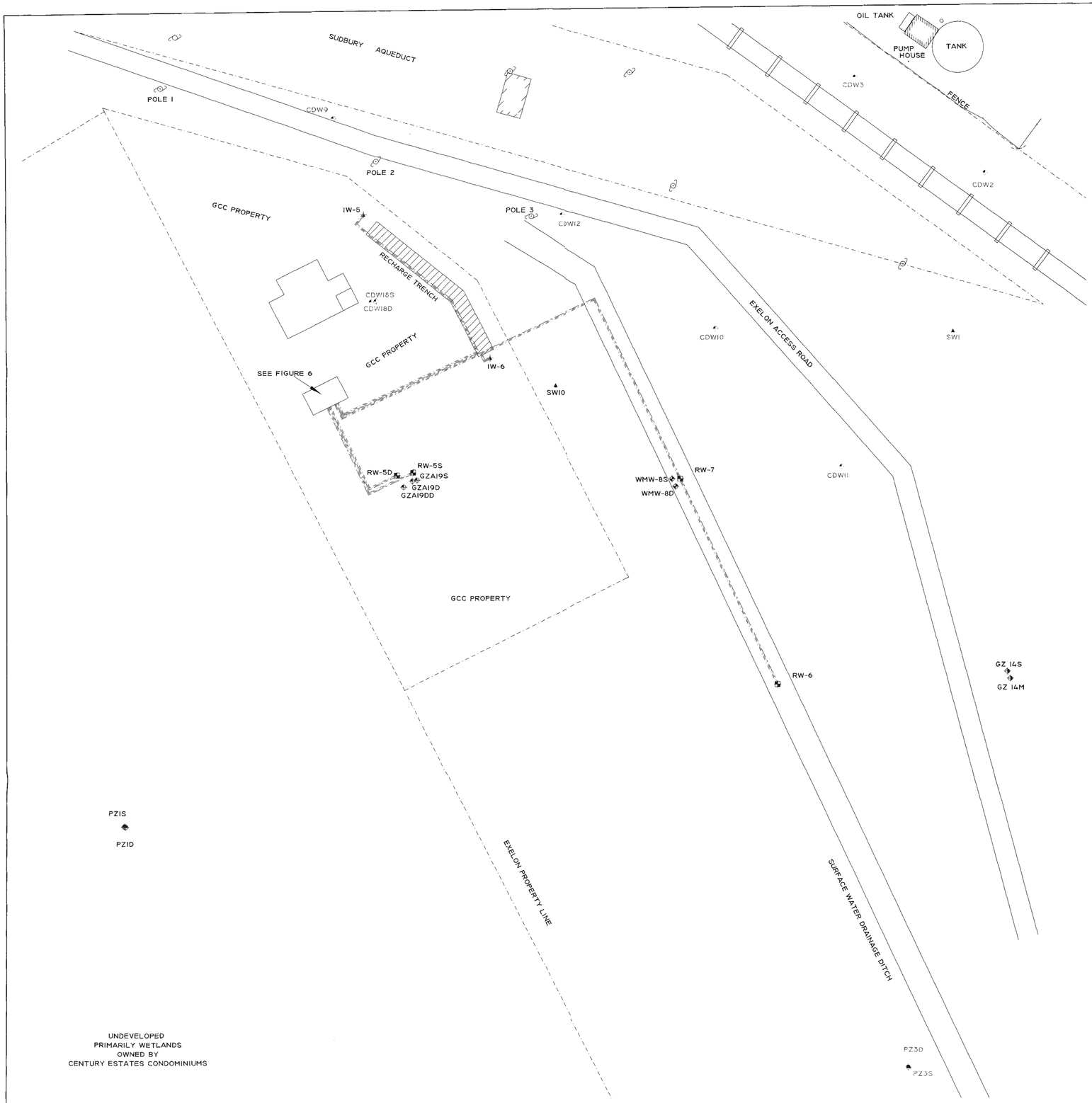
- MW-2 — MONITORING WELL INSTALLED BY SOIL EXPLORATION CORP. FOR WILSON SCHOOL PROJECT
- CDW-10 — SOIL BORING / MONITORING WELL INSTALLED BY CDW
- GZ-1 — SOIL BORING / MONITORING WELL INSTALLED BY GZA, WINTER 2000
- PZ-1S — PIEZOMETER CLUSTER INSTALLED BY GZA, WINTER 2000
- GZA-16S — SOIL BORING / MONITORING WELL INSTALLED BY GZA, SPRING 2001
- EW-1 — PUMP TEST WELLS INSTALLED BY GZA, SPRING 2001
- SW-9 — SURFACE WATER SAMPLING LOCATION
- RW-1 — EXISTING RECOVERY WELL
- WMW-1 — EXISTING MONITORING WELL
- IW-1 — EXISTING INJECTION WELL
- 1 2 3 4 — EXISTING RECHARGE GALLEY TRENCH
- EXISTING WATER LINES
- EXISTING POWER LINES

EXTENT OF GENERAL CHEMICAL CORPORATION PROPERTY OUTLINED IN GREEN

N

WMW-7
OFFICE
WMW-2S
WMW-2D
SMH
WMW-3
WMW-1
GARAGE
GALLEY TRENCH # 1
GATE
WATER LINE
ERM11
GZ7
GZ7R
RETAINING WALL WITH STOCKADE FENCE
GZ 13
ELECTRIC PANEL
CONC
1 2 3 4
5 6 7 8
9 10 11 12
FIRE LINE
C.B. WITH TANK
IW-1
SHUT OFF VALVE
TREATMENT TRAILER
CONC. PAD
WMW-4
BIT. RAMP
SH
BUILDING
CSX PROPERTY
WAREHOUSE
LOADING DOCK
CONC. WALK
SEE DRAWING # 0476
EXISTING ROOF LINE
STOCKADE FENCE
ROOF DRAIN
IW-2
RW-4
CDW4
GCC PROPERTY
C.B. & 2000 GALLON TANK
CSX TRACK
TANK
STORAGE CONTAINER
CONC.
WATER LINE
WMW-5
WILSON SCHOOL
GZ-6
ERM12D
WMW-6
CDW 1
IW-3
GALLEY TRENCH #2
13 14 15 16 17 18 19 20 21 22
RW-3
CDW3
CDW6
OIL TANK
CDW-17
PUMP HOUSE
ERM4
IW-4
FENCE
SUDBURY AQUEDUCT
FENCE & PROPERTY LINE
RW-2
CDW5
RW-1
GZ2
CDW9
POLE 2
GS6
CDW2
CDW12

WEB ENGINEERING ASSOCIATES, INC.	
104 LONGWATER DRIVE, NORWELL, MA 02061	
DATE: 1/25/07	FILE: EXISTING AA — DRAWN BY: JAS
SCALE: 1" = 20'	JOB #:04-E-005
GENERAL CHEMICAL CORPORATION	
133-135 LELAND STREET, FRAMINGHAM, MASSACHUSETTS	
FIGURE 3: GROUNDWATER REMEDIATION SYSTEM - WAREHOUSE & YARD AREA	DRAWING No: 0465



LEGEND

MW-2	MONITORING WELL INSTALLED BY SOIL EXPLORATION CORP. FOR WILSON SCHOOL PROJECT
CDW-10	SOIL BORING / MONITORING WELL INSTALLED BY CDW
GZ-1	SOIL BORING / MONITORING WELL INSTALLED BY GZA, WINTER 2000
PZ-1S	PIEZOMETER CLUSTER INSTALLED BY GZA, WINTER 2000
GZA-16S	SOIL BORING / MONITORING WELL INSTALLED BY GZA, SPRING 2001
EW-1	PUMP TEST WELLS INSTALLED BY GZA, SPRING 2001
SW-9	SURFACE WATER SAMPLING LOCATION
RW-1	EXISTING RECOVERY WELL (INSTALLED BY WEB)
WMW-1	EXISTING MONITORING WELL (INSTALLED BY WEB)
IW-1	EXISTING INJECTION WELL (INSTALLED BY WEB)
	EXISTING RECHARGE TRENCH (INSTALLED BY WEB)
	EXISTING WATER LINES (INSTALLED BY WEB)
	EXISTING POWER LINES (INSTALLED BY WEB)

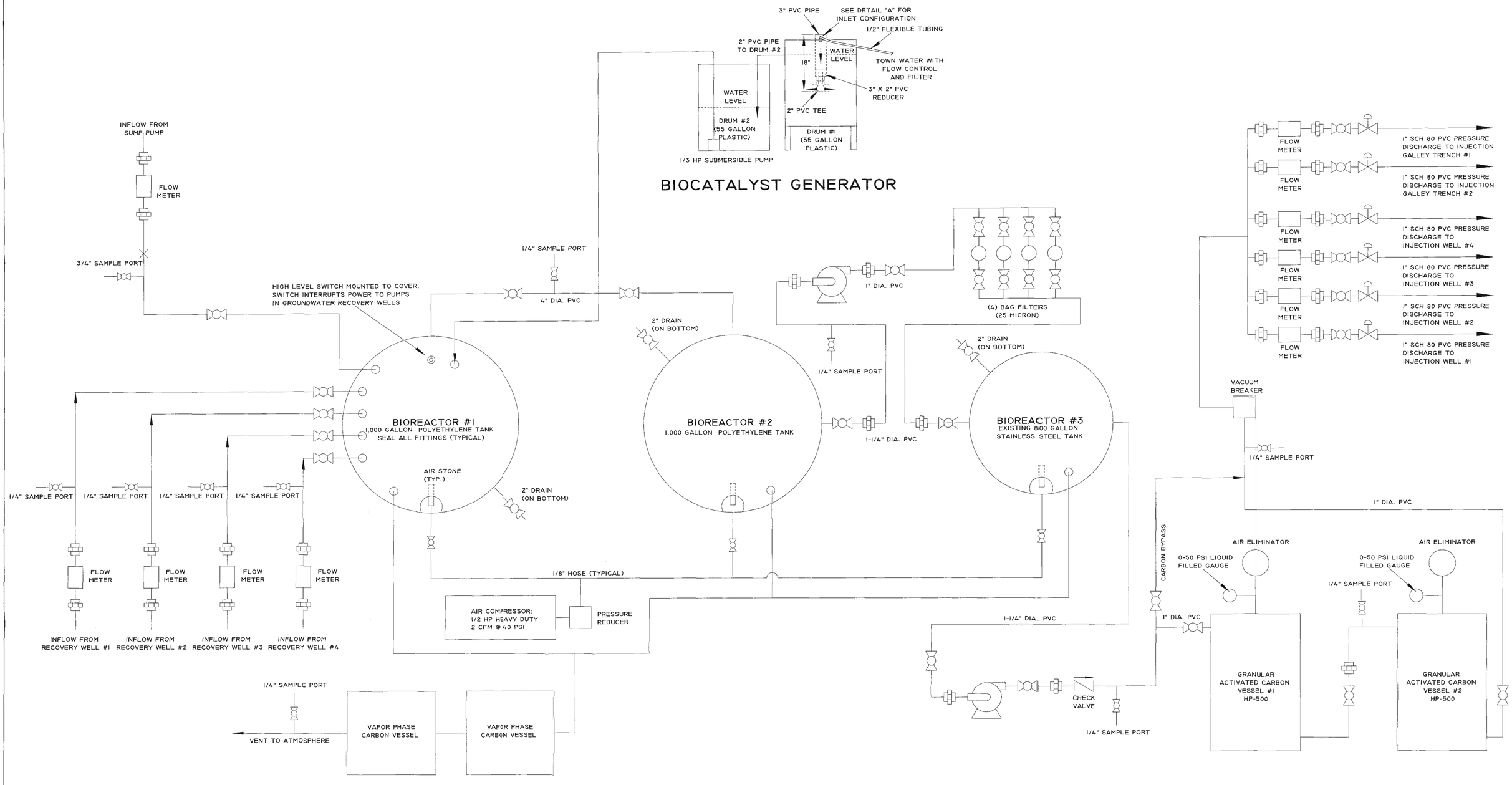
WEB ENGINEERING ASSOCIATES, INC.
104 LONGWATER DRIVE, NORWELL, MA 02061

DATE: 1/25/07	FILE: EXISTING BA	DRAWN BY: JAS
SCALE: 1" = 30'		JOB #: 04-E-005

GENERAL CHEMICAL CORPORATION
133-135 LELAND STREET, FRAMINGHAM, MASSACHUSETTS

FIGURE 4: GROUNDWATER REMEDIATION SYSTEM - GARAGE AND ABANDONED FIELD ROAD AREA

DRAWING No: 0466



GROUNDWATER RECOVERY AND TREATMENT SYSTEM

SOLENOID VALVE

BALL VALVE

UNION

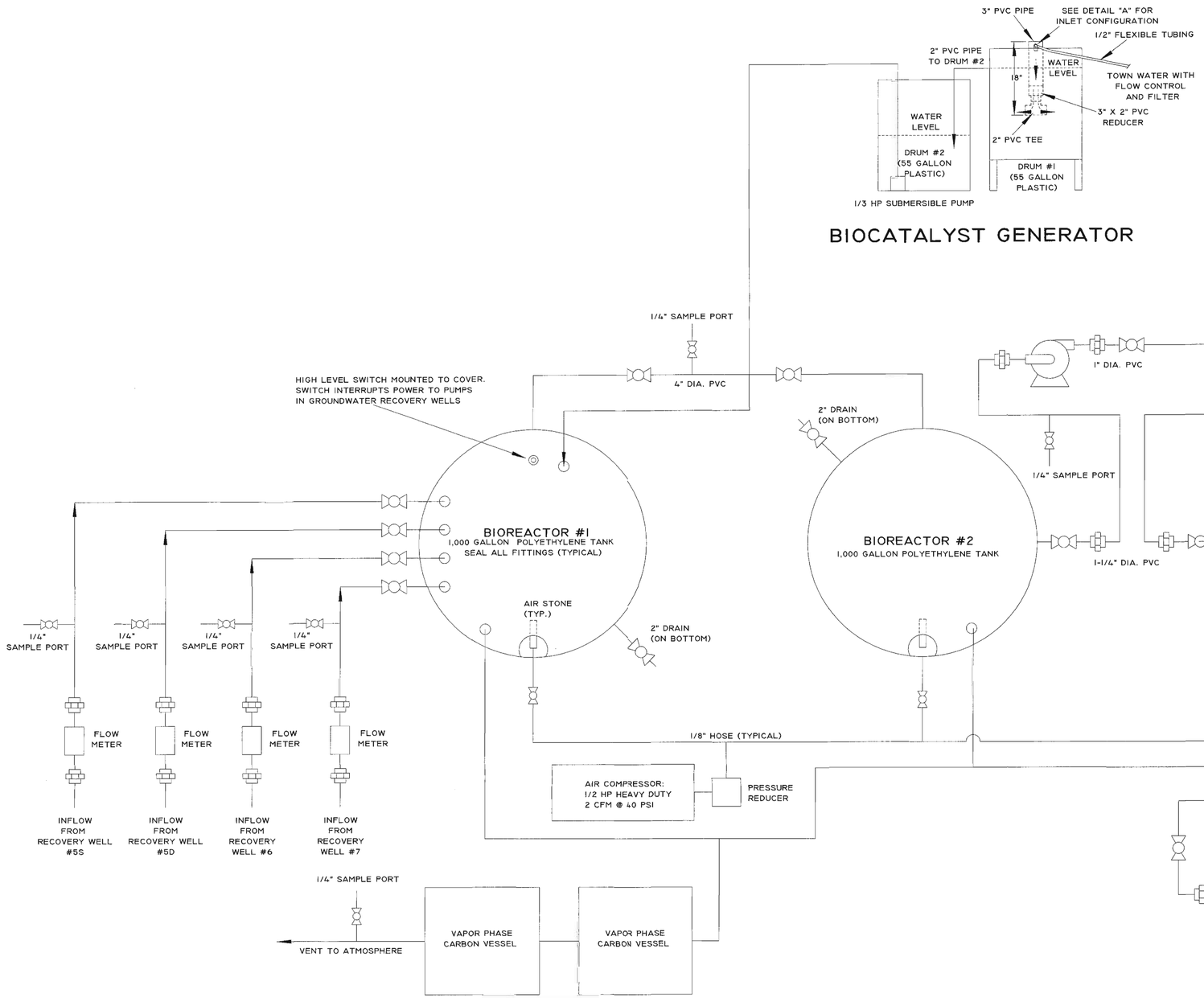
WEB ENGINEERING ASSOCIATES, INC.
104 LONGWATER DRIVE, NORWELL, MA 02061

DATE: 1/24/07	FILE: SYSTEM 1 AB	DRAWN BY: JAS
SCALE: NONE		JOB #: 04-E-005

GENERAL CHEMICAL CORPORATION
133-135 LELAND STREET, FRAMINGHAM, MASSACHUSETTS

FIGURE 5: AS BUILT CONDITIONS - WAREHOUSE & YARD
GROUNDWATER RECOVERY & TREATMENT SYSTEM #1

DRAWING No: 0516



GROUNDWATER RECOVERY AND TREATMENT SYSTEM

SOLENOID VALVE

BALL VALVE

UNION

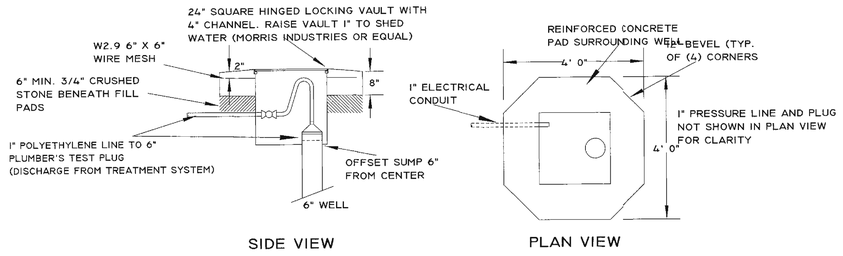
WEB ENGINEERING ASSOCIATES, INC.
104 LONGWATER DRIVE, NORWELL, MA 02061

DATE: 1/24/07	FILE: SYSTEM 2 AB	DRAWN BY: JAS
SCALE: NONE		JOB #: 04-E-005

GENERAL CHEMICAL CORPORATION
133-135 LELAND STREET, FRAMINGHAM, MASSACHUSETTS

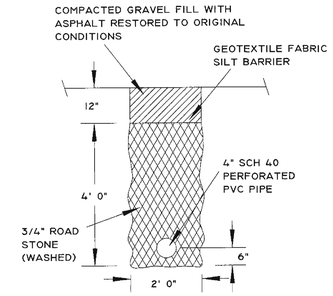
FIGURE 6: AS BUILT CONDITIONS - GARAGE & LOT
GROUNDWATER RECOVERY & TREATMENT SYSTEM #2

DRAWING No: 0517



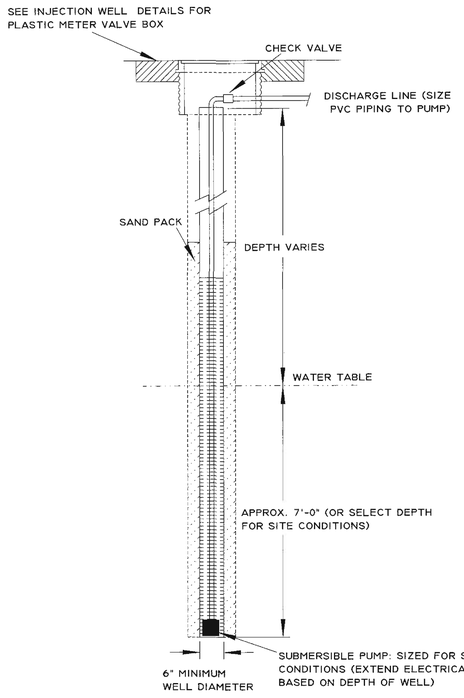
INJECTION WELL SUMP DETAILS

NOT TO SCALE



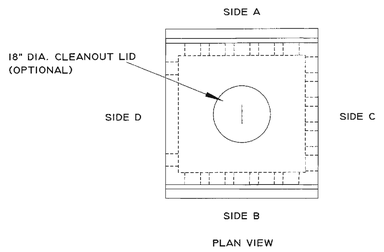
RECHARGE TRENCH DETAILS

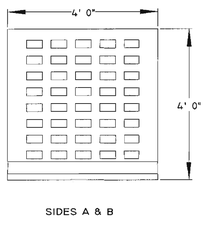
NOT TO SCALE

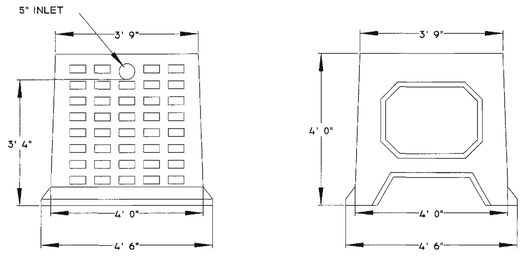


RECOVERY WELL DETAILS

NOT TO SCALE







SIDE C: G-4, G-8, G-9, G13, G-1, G-5, G-12 & G-22 SIDE D: ONE ON G-4, G-8, G-9, G13, G-1, G-5, G-12 & G-22
TWO ON G-2, G-3 G-6, G-7, G-10, G-11 & G-14 THROUGH G21

GALLEY SPECIFICATIONS AND GENERAL NOTES:

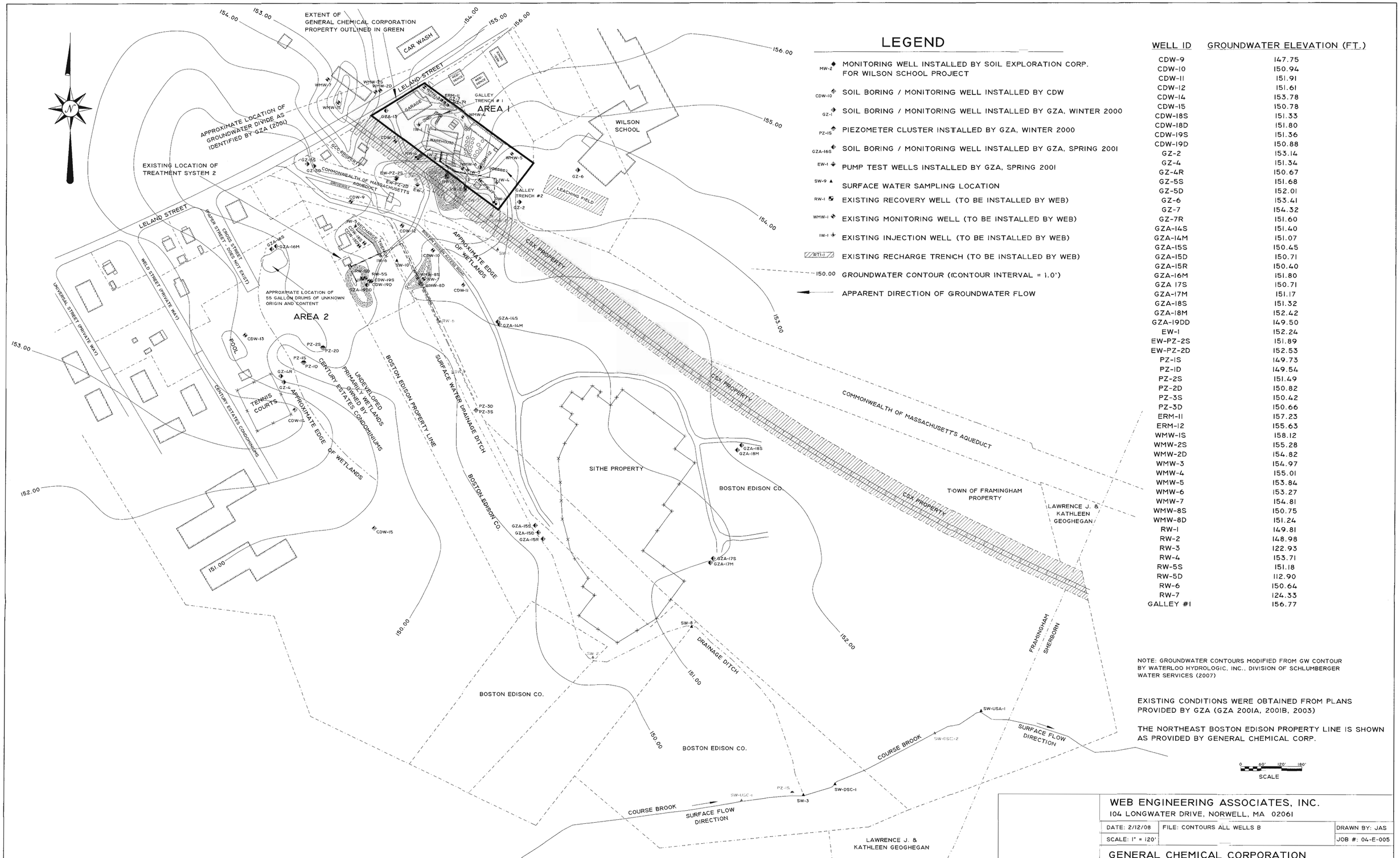
1. CONCRETE STRENGTH: 4,000 PSI AT 28 DAYS.
   DENSITY = 150 PCF
2. CEMENT: PORTLAND TYPE I OR III. ASTM C1%)-81
3. ADMIXTURES, AIR AND PLASTICIZERS TO MEET ASTM C233-82
4. WIRE FABRIC REINFORCING TO MEET ASTM A615 (GRADE 60 ROD)
5. HS-20-44 DESIGN LOADING

GALLEY DETAILS

NOT TO SCALE

GALLEY INSTALLATION: EXCAVATE TO
BEDROCK AND BACKFILL WITH 1-1/2"
WASHED ROADSTONE (NO FINES)

WEB ENGINEERING ASSOCIATES, INC. 104 LONGWATER DRIVE, NORWELL, MA 02061	
DATE: 1/24/07	FILE: DETAILS — DRAWN BY: TLG
SCALE: 1" = 30"	JOB #: 04-E-005
GENERAL CHEMICAL CORPORATION 133-135 LELAND STREET, FRAMINGHAM, MASSACHUSETTS	
FIGURE 7: WELLS, GALLEY & TRENCH DETAILS	DRAWING No: 0477



LEGEND

- MW-2 ◆ MONITORING WELL INSTALLED BY SOIL EXPLORATION CORP. FOR WILSON SCHOOL PROJECT
- CDW-10 ◆ SOIL BORING / MONITORING WELL INSTALLED BY CDW
- GZ-1 ◆ SOIL BORING / MONITORING WELL INSTALLED BY GZA, WINTER 2000
- PZ-1S ◆ PIEZOMETER CLUSTER INSTALLED BY GZA, WINTER 2000
- GZA-16S ◆ SOIL BORING / MONITORING WELL INSTALLED BY GZA, SPRING 2001
- EW-1 ◆ PUMP TEST WELLS INSTALLED BY GZA, SPRING 2001
- SW-9 ▲ SURFACE WATER SAMPLING LOCATION
- RW-1 ◆ EXISTING RECOVERY WELL (TO BE INSTALLED BY WEB)
- WMW-1 ◆ EXISTING MONITORING WELL (TO BE INSTALLED BY WEB)
- IW-1 ◆ EXISTING INJECTION WELL (TO BE INSTALLED BY WEB)
- RT1-1 EXISTING RECHARGE TRENCH (TO BE INSTALLED BY WEB)
- 150.00 GROUNDWATER CONTOUR (CONTOUR INTERVAL = 1.0')
- APPARENT DIRECTION OF GROUNDWATER FLOW

WELL ID	GROUNDWATER ELEVATION (FT.)
CDW-9	147.75
CDW-10	150.94
CDW-11	151.91
CDW-12	151.61
CDW-14	153.78
CDW-15	150.78
CDW-18S	151.33
CDW-18D	151.80
CDW-19S	151.36
CDW-19D	150.88
GZ-2	153.14
GZ-4	151.34
GZ-4R	150.67
GZ-5S	151.68
GZ-5D	152.01
GZ-6	153.41
GZ-7	154.32
GZ-7R	151.60
GZA-14S	151.40
GZA-14M	151.07
GZA-15S	150.45
GZA-15D	150.71
GZA-15R	150.40
GZA-16M	151.80
GZA 17S	150.71
GZA-17M	151.17
GZA-18S	151.32
GZA-18M	152.42
GZA-19DD	149.50
EW-1	152.24
EW-PZ-2S	151.89
EW-PZ-2D	152.53
PZ-1S	149.73
PZ-1D	149.54
PZ-2S	151.49
PZ-2D	150.82
PZ-3S	150.42
PZ-3D	150.66
ERM-11	157.23
ERM-12	155.63
WMW-1S	158.12
WMW-2S	155.28
WMW-2D	154.82
WMW-3	154.97
WMW-4	155.01
WMW-5	153.84
WMW-6	153.27
WMW-7	154.81
WMW-8S	150.75
WMW-8D	151.24
RW-1	149.81
RW-2	148.98
RW-3	122.93
RW-4	153.71
RW-5S	151.18
RW-5D	112.90
RW-6	150.64
RW-7	124.33
GALLEY #1	156.77

NOTE: GROUNDWATER CONTOURS MODIFIED FROM GW CONTOUR BY WATERLOO HYDROLOGIC, INC., DIVISION OF SCHLUMBERGER WATER SERVICES (2007)

EXISTING CONDITIONS WERE OBTAINED FROM PLANS PROVIDED BY GZA (GZA 2001A, 2001B, 2003)

THE NORTHEAST BOSTON EDISON PROPERTY LINE IS SHOWN AS PROVIDED BY GENERAL CHEMICAL CORP.

SCALE 0 60' 120' 180'

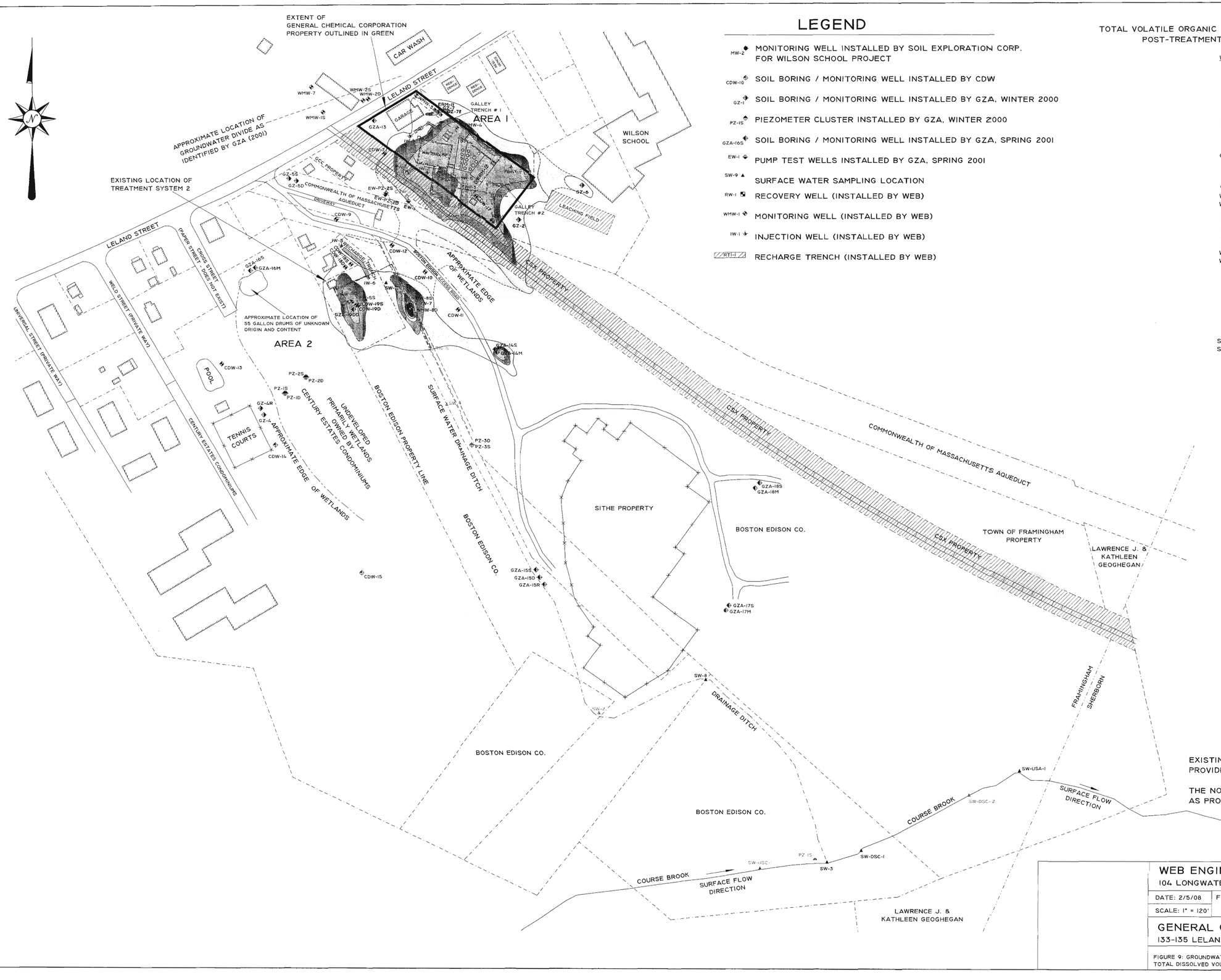
WEB ENGINEERING ASSOCIATES, INC.
104 LONGWATER DRIVE, NORWELL, MA 02061

DATE: 2/12/08	FILE: CONTOURS ALL WELLS B	DRAWN BY: JAS
SCALE: 1" = 120'		JOB #: 04-E-005

GENERAL CHEMICAL CORPORATION
133-135 LELAND STREET, FRAMINGHAM, MASSACHUSETTS

FIGURE 8: HYDROGEOLOGIC DATA

DRAWING No: 0808



LEGEND

- MW-2 — MONITORING WELL INSTALLED BY SOIL EXPLORATION CORP. FOR WILSON SCHOOL PROJECT
- CDW-10 — SOIL BORING / MONITORING WELL INSTALLED BY CDW
- GZ-1 — SOIL BORING / MONITORING WELL INSTALLED BY GZA, WINTER 2000
- PZ-1S — PIEZOMETER CLUSTER INSTALLED BY GZA, WINTER 2000
- GZA-16S — SOIL BORING / MONITORING WELL INSTALLED BY GZA, SPRING 2001
- EW-1 — PUMP TEST WELLS INSTALLED BY GZA, SPRING 2001
- SW-9 — SURFACE WATER SAMPLING LOCATION
- RW-1 — RECOVERY WELL (INSTALLED BY WEB)
- WMW-1 — MONITORING WELL (INSTALLED BY WEB)
- IW-1 — INJECTION WELL (INSTALLED BY WEB)
- RTI-1 — RECHARGE TRENCH (INSTALLED BY WEB)

TOTAL VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER/SURFACE WATER
POST-TREATMENT SYSTEM START-UP (NOVEMBER 2007)

WELL ID	TOTAL VOCS (PPB)
GZ-1	NOT TESTED
GZ-2	157
GZ-5S	NOT DETECTED
GZ-6	636
GZ-7	2,450
GZ-7R	830
GZ-14S	173
GZ-14M	10,270
GZ-15S	NOT DETECTED
GZ-15D	NOT DETECTED
GZ-15R	NOT DETECTED
GZ-19DD	99,800
PZ-1S	NOT TESTED
PZ-1D	NOT DETECTED
PZ-2S	NOT TESTED
WMW-1S	NOT DETECTED
WMW-2S	27
WMW-2D	1.2
WMW-3	90.5
WMW-4	56,300
WMW-5	36,700
WMW-6	NOT TESTED
WMW-7	6
WMW-8S	89,500
WMW-8D	DNAPL
RW-1	86,300
RW-2	51,200
RW-3	129,800
RW-4	NOT TESTED
RW-5S	NOT TESTED
RW-5D	92,400
RW-7	13,250
SW-3	24
SW-10	NOT TESTED
SW-DSC-1	5
SW-USA-1	8

- LESS THAN 100 PPB
- 100 - 1,000 PPB
- 1,000 - 10,000 PPB
- 10,000 - 100,000 PPB
- GREATER THAN 100,000 PPB
- LNAPL
- DNAPL

EXISTING CONDITIONS WERE OBTAINED FROM PLANS PROVIDED BY GZA (GZA 2001A, 2001B, 2003)

THE NORTHEAST BOSTON EDISON PROPERTY LINE IS SHOWN AS PROVIDED BY GENERAL CHEMICAL CORP.

0 60' 120' 180'
SCALE

WEB ENGINEERING ASSOCIATES, INC.
104 LONGWATER DRIVE, NORWELL, MA 02061

DATE: 2/5/08	FILE: FIGURE 9 B	DRAWN BY: JAS
SCALE: 1" = 120'		JOB #: 04-E-005

GENERAL CHEMICAL CORPORATION
133-135 LELAND STREET, FRAMINGHAM, MASSACHUSETTS

FIGURE 9: GROUNDWATER/SURFACE WATER PLUME DELINEATION MAP
TOTAL DISSOLVED VOLATILE ORGANIC COMPOUNDS MARCH - NOVEMBER 2007

DRAWING No: 08005

TABLES

RECEIVED
MAR 0 4 2008
DEP
NORTHEAST REGIONAL OFFICE

TABLE 1: GROUNDWATER MONITOR WELL AND HYDROGEOLOGIC DATA (November - December, 2007)

WELL ID	INSTALLATION DATE	TOTAL DEPTH/ SCREENED INTERVAL (ft) (strata)	WELL ELEVATION (ft)	DEPTH TO WELL BOTTOM (ft)	DEPTH TO LNAPL/DNAPL (ft)	DEPTH TO GROUNDWATER (ft)	GROUNDWATER ELEVATION (ft)	OBSERVATIONS
CDW – 7	Unknown	Unknown/1-10	158.42	10.40	Not Detected	Not Gauged	-	Could not locate
CDW – 9	Unknown	Unknown	155.25	7.50	Not Detected	7.50	147.75	
CDW – 10	Unknown	Unknown	153.12	10.97	Not Detected	2.18	150.94	
CDW – 11	Unknown	Unknown	152.99	11.25	Not Detected	1.08	151.91	
CDW – 12	Unknown	Unknown/10-20	154.20	20.00	Not Detected	2.59	151.61	
CDW – 13	Unknown	Unknown	161.15	14.70	-	Not Gauged	-	
CDW – 14	Unknown	Unknown/2-20	158.10	11.51	Not Detected	4.32	153.78	
CDW – 15	Unknown	Unknown/2-12	154.62	10.50	Not Detected	3.84	150.78	
CDW – 18S	Unknown	Unknown/2-6	153.57	5.40	Not Detected	2.24	151.33	
CDW – 18D	Unknown	Unknown/4-9	153.78	8.92	Not Detected	1.98	151.80	
CDW – 19S	Unknown	Unknown/37-47	152.63	5.88	Not Detected	1.27	151.36	
CDW – 19D	Unknown	Unknown/15-20	154.91	21.53	Not Detected	4.03	150.88	
GZ – 2	12.29.99	69/62-69 (silt)	160.95	63.95	Not Detected	7.81	153.14	
GZ – 4	01.06.00	39/27-37 (sd, sdy silt)	158.84	35.98	Not Detected	7.50	151.34	
GZ – 4R	01.18.00	63/58-63 (bedrock)	158.65	62.53	Not Detected	7.98	150.67	
GZ – 5S	12.28.99	18/2.5-17.5 (fill,slt)	156.12	16.61	Not Detected	4.44 ↓	151.68	
GZ – 5D	12.28.99	44/34-44 (fill)	156.07	39.20	Not Detected	4.06	152.01	
GZ – 6	12.27.99	22/10-20 (sand)	165.42	18.95	Not Detected	12.01 ↓	153.41	
GZ – 7	12.21.99	43/38-43 (fill)	161.40	42.50	Not Detected	7.08 ↓	154.32	
GZ – 7R	01.03.00	97/92-97 (bedrock)	161.74	95.80	Not Detected	10.14 ↑	151.60	
GZ – 8	Unknown	Unknown	158.72	11.50	-	Not Gauged	-	Well under roll off
GZA – 13	03.20.01	14/1.5-11.5 (sd/slt)	159.75	12.00	Not Detected	Not Gauged	-	Not accessible
GZA – 14S	03.27.01	25.3/14.8-24.8 (sd)	155.35	27.60	Not Detected	3.95 ↓	151.40	
GZA – 14M	03.27.01	79/67-77 (sand,fill)	155.35	79.11	Not Detected	4.28 ↓	151.07	
GZA – 15S	04.18.01	14/4-14 (sand)	156.47	16.50	Not Detected	6.02 ↓	150.45	
GZA – 15D	04.17.01	34/19-34 (till)	156.68	36.70	Not Detected	5.97 ↓	150.71	
GZA – 15R	04.13.01	53/48-53 (bedrock)	156.51	55.28	Not Detected	6.11 ↓	150.40	
GZA – 16M	03.29.01	51.5/40-50 (clyslt,fsl)	158.77	50.00	Not Detected	6.97	151.80	
GZA – 17S	04.04.01	14/4-14 (sand)	158.18	15.95	Not Detected	7.47	150.71	
GZA – 17M	04.03.01	51/40-50 (clyslt,till)	158.06	52.02	Not Detected	6.89	151.17	
GZA – 18S	04.09.01	14/4-14 (slty sand)	158.35	17.33	Not Detected	7.03	151.32	
GZA – 18M	04.05.01	46.5/35-45.5 (clyslt,fsl)	158.31	47.25	Not Detected	5.89	152.42	
GZA – 19DD	04.19.01	54/38-48 (clyslt)	154.15	50.45	Not Detected	4.65 ↑	149.50	
GZA – 19S	Unknown	Unknown	Not Measured	Not Measured	Not Detected	Not Gauged	-	
GZA – 19D	Unknown	Unknown	Not Measured	Not Measured	Not Detected	Not Gauged	-	

↑ represents increase from previous gauging event ↓ represents decrease from previous gauging event

TABLE 1: GROUNDWATER MONITOR WELL AND HYDROGEOLOGIC DATA (November - December, 2007)

WELL ID	INSTALLATION DATE	TOTAL DEPTH/ SCREENED INTERVAL (ft) (strata)	WELL ELEVATION (ft)	DEPTH TO WELL BOTTOM (ft)	DEPTH TO NAPL/DNAPL (ft)	DEPTH TO GROUNDWATER (ft)	GROUNDWATER ELEVATION (ft)	OBSERVATIONS
EW – 1	04.26.01	57/10-46 (sd, silty sd)	159.07	45.10	Not Detected	6.83	152.24	
EW – PZ – 2S	05.02.01	18/3-18 (sd, silty sd)	158.37	19.75	Not Detected	6.48	151.89	
EW – PZ – 2D	05.02.01	43/23-38 (sd, silty sd)	158.52	38.40	Not Detected	5.99	152.53	
PZ – 1S	Unknown	Unknown	153.03	10.90	Not Detected	3.30	149.73	
PZ – 1D	Unknown	Unknown	154.34	20.90	Not Detected	4.80	149.54	
PZ – 2S	Unknown	Unknown	154.29	10.60	Not Detected	2.80	151.49	
PZ – 2D	Unknown	Unknown	154.72	15.30	Not Detected	3.90	150.82	
PZ – 3S	Unknown	Unknown/8-10	154.02	9.90	Not Detected	3.60	150.42	
PZ – 3D	12.17.99	20/18-20 (sand)	154.06	20.20	Not Detected	3.40	150.66	
ERM – 11	Unknown	Unknown/4-14	161.17	41.40	Not Detected	3.94	157.23	
ERM – 12	Unknown	Unknown/38-48	160.32	5.70	Not Detected	4.69	155.63	
WMW – 1S	08.19.05	40/5-40	158.97	13.86	Not Detected	3.43 ↑	158.12	
WMW – 2S	08.19.05	15/5-15	161.55	14.35	Not Detected	6.27 ↓	155.28	
WMW – 2D	12.05.05	45/15-45	161.38	39.30	Not Detected	6.56 ↓	154.82	
WMW – 3	12.07.05	20/10-20	164.14	19.45	Not Detected	9.17 ↓	154.97	
WMW – 4	September 2005	15/5-15	162.34	13.80	Not Detected	7.33 ↓	155.01	
WMW – 5	September 2005	15/5-15	163.19	14.20	Not Detected	9.35 ↓	153.84	
WMW – 6	September 2005	40/10-40	160.02	34.25	Not Detected	6.75 ↓	153.27	
WMW – 7	September 2005	15/5-15	161.12	14.85	Not Detected	6.31 ↑	154.81	
WMW – 8S	September 2005	15/5-15	155.70	32.20	Not Detected	4.95 ↓	150.75	
WMW – 8D	**September 2005**	**55/45-55**	**155.79**	**52.55**	**DNAPL**	**4.55 ↓**	**151.24**	
RW – 1	08.17.05	40/5-40	159.21	40.00	Not Detected	9.40	149.81	
RW – 2	09.02.05	40/5-40	158.79	40.00	Not Detected	9.81	148.98	
RW – 3	09.01.05	40/5-40	160.63	37.70	Not Detected	37.70	122.93	
RW – 4	09.01.05	40/5-40	159.35	40.00	Not Detected	5.64 ↑	153.71	
RW – 5S	10.16.06	30/10-30	152.46	27.68	Not Detected	1.28 ↑	151.18	
RW – 5D	10.16.06	40/20-40	152.90	40.00	Not Detected	40.00	112.90	
RW – 6	12.07.05	40/10-40 (silty sd/slt)	153.40	32.70	Not Detected	2.76 ↓	150.64	
RW – 7	06.05.06	40/10-40 (silty sd/slt)	154.33	38.60	Not Detected	>30' ↓	>124.33	

↑ represents increase from previous gauging event ↓ represents decrease from previous gauging event

TABLE 1: GROUNDWATER MONITOR WELL AND HYDROGEOLOGIC DATA (November - December, 2007)

WELL ID	INSTALLATION DATE	TOTAL DEPTH/ SCREENED INTERVAL (ft) (strata)	WELL ELEVATION (ft)	DEPTH TO WELL BOTTOM (ft)	DEPTH TO NAPL/DNAPL (ft)	DEPTH TO GROUNDWATER (ft)	GROUNDWATER ELEVATION (ft)	OBSERVATIONS
IW – 1	08.16.05	40/5-35	Not Measured	40.0	-	Not Gauged	-	
IW – 2	08.16.05	20/10-20	Not Measured	20.0	-	Not Gauged	-	
IW – 3	08.17.05	40/5-35	Not Measured	40.0	-	Not Gauged	-	
IW – 4	08.15.05	20/10-20	Not Measured	32.70	-	Not Gauged	-	Under water
IW – 5	12.05.05	40/10-40	Not Measured	34.55	Not Detected	3.39	-	
IW – 6	12.07.05	40/10-30	Not Measured	40.0	-	Not Gauged	-	
Galley # 1	08.08.05	N/A	159.31	N/A	Not Detected	2.54	156.77	
Galley # 2	08.08.05	N/A	160.71	N/A	Not Detected	Not Gauged	-	Galley is Dry
Inj. Trench-U	04.03.06	N/A	-	3.97	Not Detected	1.05	-	Upper portion
Inj. Trench-L	04.03.06	N/A	-	4.00	Not Detected	2.26	-	Lower portion

↑ represents increase from previous gauging event ↓ represents decrease from previous gauging event

TABLE 2: GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG – 2005

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Galley G-1		Injection Galley G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
10 27 05	1415	3.03	0	3.04	0	Off	0	3.18								Off		Off		Off		Off	0
10 27 05	1615	Off		Off		Off		Off															
10 28 05	0715	3.06		3.08		Off		3.10								Off		Off		Off		Off	
10 28 05	0330	Off		Off		Off		Off															
10 31 05	0230	3.22		3.25		Off		3.18								Off		Off		Off		Off	
10 31 05	0320	Off		Off		Off		Off															
11 01 05	0655	3.06	1,382	3.20	1,381	Off		3.21	1,156	4-5-5-5	14-12	14.70				Off		Off		Off		Off	
11 01 05	1530	Off		Off		Off		Off															
11 02 05	0655	3.03	2,905	3.13	2,933	Off		3.18	2,628							Off		Off		Off		Off	
11 02 05	0320	Off		Off		Off		Off															
11.03.05	0640	3.31	4,424	3.34	4,407	Off		3.14	4,152							Off		Off		Off		Off	
11 03 05	1500	Off		Off		Off		Off															
11 04 05	0650	3.17	5,607	3.23	5,566	Off		3.49	4,317	7-8-8-8	25-22	10.00		9.84		Off		Off		Off		Off	
11 04 05	1545	Off		Off		Off		Off															
11 07 05	0655	3.17	7,257	3.14	7,177	Off		3.27	6,092	7-7-7-7	26-23	10.41		10.22		Off		Off		Off		Off	
11 07 05	1500	Off		Off		Off		Off															
11 08 05	1030	3.13	8,776	3.13	8,670	Off		3.30	7,666							Off		Off		Off		Off	
11 09 05	0705	3.10	12,472	3.04	12,320	Off		3.21	11,502	7-7-7-7	25-22	10.29		9.92		Off		Off		Off		Off	
11 10 05	0700	Off	16,757	3.11	16,523	Off		3.23	15,908	7-7-7-7	26-23	10.29		9.96		Off		Off		Off		Off	
11 11 05	0830	Off		2.97	20,814	Off		3.15	19,685	7-7-7-7	25-22	10.24		9.90		Off		Off		Off		Off	
11 11 05	1505	Off		Off	21,909	Off		Off	20,826														
11 14 05	0703	Off		3.09	21,909	Off		3.26	20,826							Off		Off		Off		Off	
11 16 05	0650	3.12	16,804	2.97	30,013	Off		3.25	30,186	7-8-8-8	25-22	10.34	47,068	9.87	31,604	Off		Off		Off		Off	
11 16 05	1640	3.08	18,236	3.06	31,455	Off		3.11	31,786				49,512		33,866	Off		Off		Off		Off	
11 17 05	0645	3.06	20,793	3.00	34,017	Off		3.11	34,349	8-8-8-8			533,840		37,939	Off		Off		Off		Off	
11 18 05	1319	Off		2.95	39,168	Off	0	3.13	39,499			10.01	59,466	9.58	43,345	Off		Off		Off		Off	
11 18 05	1519	Off		2.95	39,504	Off		3.13	39,836				59,744		43,612	Off		Off		Off		Off	
11.21.05	0720	Off	20,848	2.97	50,307	Off		3.21	51,744	13-14-14-14			70,925		54,654	Off		Off		Off		Off	
11 22 05	0640	Off		3.00	54,314	Off		3.27	56,162	15-15-15-15	25-20	9.82	75,175	9.38	58,903	Off		Off		Off		Off	
11 23 05	0650	Off		Off	58,369	Off		Off	60,191														
11 28 05	0705	Off		3.11	58,369	Off		3.37	60,191							Off		Off		Off		Off	
11 30 05	0700	Off		Off	66,074	Off		Off	68,579	21-22-22-22x			87,248		70,888	Off		Off		Off		Off	
12 02 05	0755	Off	20,859	3.07	66,088	Off		3.37	68,602	6-6-6-6	25-20	10.46	87,705	9.57	71,346	Off		Off		Off		Off	
12 05 05	0710	Off		3.16	74,109	Off		3.46	80,890	6-6-6-6	26-20	10.14	100,578	9.30	83,787	Off		Off		Off		Off	
12 06 05	0725	Off		3.16	76,825	Off		3.53	84,965	8-6-7-7			105,031		87,667	Off		Off		Off		Off	
12 07 05	0650	Off		3.18	79,476	Off		3.56	88,985	8-7-7-7	26-19	9.87	109,448	9.08	91,292	Off		Off		Off		Off	
12 08 05	0725	Off		3.20	82,237	Off		3.65	93,345	9-10-10-10	26-17	9.54	114,350	8.74	95,267	Off		Off		Off		Off	
12 09 05	0845	Off		3.31	85,046	Off		3.74	98,124	20-20-20-20x		9.84	119,299	8.83	99,307	Off		Off		Off		Off	
12 12 05	0700	Off		3.14	92,428	Off		3.77	110,888	6-6-6-6			132,486		110,128	Off		Off		Off		Off	
12 13 05	0705	Off		3.09	95,138	Off		3.74	115,225	7-7-7-7	29-17	9.59	137,455	8.70	114,002	Off		Off		Off		Off	
12 14 05	0655	Off		3.06	97,826	Off		3.74	119,266	8-8-9-9	29-17	9.49	142,358	8.58	117,871	Off		Off		Off		Off	
12 15 05	0710	Off		3.02	100,546	Off		3.77	123,682	10-10-11-11			147,261		121,802	Off		Off		Off		Off	
12 16 05	0650	Off		3.00	103,242	Off		3.65	127,680	13-13-13-13x	29-16	9.22	152,357	8.34	125,959	Off		Off		Off		Off	
12 19 05	0700	Off		3.18	111,248	Off		3.60	138,090	7-7-7-7	29-13	8.41	167,717	7.54	139,366	Off		Off		Off		Off	
12 20 05	0905	Off		3.11	114,174	Off		3.65	141,510	7-7-7-7	29-13	8.25	172,454	7.40	144,368	Off		Off		Off		Off	
12 21 05	0650	Off		3.06	116,666	Off		3.69	144,904	8-7-7-7	29-13		177,018		148,450	Off		Off		Off		Off	
12 22 05	0655	Off		3.00	119,302	Off		3.58	147,948				182,111		152,991	Off		Off		Off		Off	
12 23 05	1335	Off		Off	122,780	Off		Off	151,579	11-11-12-12	30-11		188,614		158,809	Off		Off		Off		Off	
12 27 05	0950	Off		3.25	122,780	Off		3.46	151,579	13-13-13-14			188,614		158,809	Off		Off		Off		Off	
12 28 05	0800	Off		3.32	125,242	Off	0	3.44	154,042	20-20-20-20 x	30-10	7.50	194,532	6.63	164,047	Off		Off		Off		Off	0

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG – 2005-2006

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA									
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4				Injection Galley G-1		Injection Galley G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Bag Filter	Carbon	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
12 29 05	0830	Off	21,023	3.23	127,989	Off		3.35	156,789	6-6-6-6	30-10	7.37	200,218	6.53	168,071	Off		Off		Off		Off	0
12 30 05	0935	Off		3.27	130,809	Off		3.28	159,609				205,894		174,119	Off		Off		Off		Off	
01 03 06	0740	Off		3.38	149,045	Off		3.07	170,198	7-7-7-7			226,982		192,789	Off		Off		Off		Off	
01 04 06	0755	Off		3.34	153,809	Off		3.11	174,175		37-6	4.59	232,305	0/clog	196,841	Off		Off		Off		Off	
01 06 06	0650	Off		3.23	162,778	Off		2.92	182,587	10-10-10-10	38-6	0/clog	232,354	7.76	205,859	Off		Off		Off		Off	
01 09 06	0700	Off		3.21	176,466	Off		3.42	197,027	15-15-15-15	31-11	6.40	247,804	7.32	223,336	Off		Off		Off		Off	
01 10 06	0810	Off		3.27	180,974	Off		3.56	201,800	17-17-17-17x	32-12	6.75	252,617	7.38	228,959	Off		Off		Off		Off	
01 11 06	0655	Off		3.23	185,263	Off		3.44	208,521	8-8-8-8	32-11	6.45	257,375	7.27	234,294	Off		Off		Off		Off	
01 12 06	0645	Off		3.27	189,641	Off		3.49	211,439	8-8-8-8	32-12	6.55	262,670	7.11	240,153	Off		Off		Off		Off	
01 13 06	0705	Off		3.27	194,433	Off	0	3.39	216,326	9-8-8-8			268,007		245,949	Off		Off		Off		Off	
01 16 06	0730	Off	21,023	3.25	208,196	Off		3.35	230,726	13-13-13-13	32-12	6.89	284,894	6.82	263,189	Off		Off		Off		Off	
01 17 06	0750	Off		3.28	212,815	Off		3.41	235,578	15-15-15-15x	32-12	6.96	290,487	6.84	268,712	Off		Off		Off		Off	
01 18 06	0645	Off		3.21	217,192	Off		3.42	240,121	8-8-8-8	32-12	6.98	296,008	6.68	274,105	Off		Off		Off		Off	
01 20 06	0640	Off		3.25	226,285	Off		3.28	249,639	8-8-8-8	32-12		307,949		284,975	Off		Off		Off		Off	
01 23 06	0650	Off		3.28	240,111	Off		3.44	263,919	10-10-10-10	32-13	7.28	325,893	6.40	301,032	Off		Off		Off		Off	
01 24 06	0645	Off		3.31	244,789	Off		3.52	268,861	15-15-15-15x	32-13	7.46	331,995	6.75	306,513	Off		Off		Off		Off	
01 25 06	0715	Off		3.70	249,826	Off		3.58	273,847	8-8-8-8	32-13		338,450		312,247	Off		Off		Off		Off	
01 26 06	0700	Off		3.76	255,151	Off		3.62	278,863	8-8-8-8	32-12		345,069		317,898	Off		Off		Off		Off	
01 27 06	0650	Off	21,023	3.79	260,616	Off	0	3.67	284,149	9-9-9-9	32-14	7.65	352,059	6.46	232,822	Off		Off		Off		Off	
01 30 06	0710	Off		3.77	276,711	Off		3.49	299,513	13-13-13-12x	32-14	7.94	372,162	6.39	340,363	Off		Off		Off		Off	
01 31 06	0705	Off		3.79	281,947	Off		3.51	304,312	8-8-8-8	32-14	8.09	379,314	6.32	345,995	Off		Off		Off		Off	
02 01 06	0655	Off		3.74	287,241	Off		3.58	309,196	9-8-8-8	32-14	8.21	386,589	6.25	351,552	Off		Off		Off		Off	
02 02 06	0630	Off		3.72	292,331	Off		3.60	314,169	9-9-9-9			393,912		357,009	Off		Off		Off		Off	
02 03 06	0700	Off		3.67	297,617	Off		3.63	319,339	10-10-10-10	32-14	8.36	401,470	6.23	362,626	Off		Off		Off		Off	
02 06 06	0705	Off		3.79	297,713	Off		3.74	334,521	15-15-15-15x			414,103		371,836	Off		Off		Off		Off	
02 07 06	0620	Off	21,023	3.65	302,655	Off	0	3.72	339,449	8-8-7-7	32-14	8.55	421,615	6.34	377,290	Off		Off		Off		Off	
02 08 06	0655	Off		3.65	307,840	Off		3.74	344,651	9-8-8-7	32-14		429,446		382,959	Off		Off		Off		Off	
02 09 06	0650	Off		3.65	312,887	Off		3.72	349,700	9-9-8-8	33-15	8.67	437,077	6.30	388,472	Off		Off		Off		Off	
02 10 06	0645	Off		3.55	317,933	Off		3.76	354,765	10-9-9-9	33-15	8.68	445,137	6.25	394,208	Off		Off		Off		Off	
02 13 06	0705	Off		3.58	333,111	Off		3.73	370,983	12-12-12-12x	34-15	9.09	468,746	6.44	411,261	Off		Off		Off		Off	
02 14 06	0715	Off		2.93	337,112	Off		3.02	374,987	8-8-8-8	34-15		476,222		416,537	Off		Off		Off		Off	
02 15 06	0650	Off		2.95	341,105	Off		3.04	379,033	9-8-8-7	34-16	9.22	482,866	6.32	421,104	Off		Off		Off		Off	
02 16 06	0655	Off		2.99	345,158	Off		3.09	383,337	9-8-8-7			489,850		425,781	Off		Off		Off		Off	
02 17 06	0715	Off		2.88	349,266	Off		3.11	387,788	8-8-8-8	34-16	9.41	497,103	6.21	430,579	Off		Off		Off		Off	
02 21 06	0735	Off		3.35	367,920	Off		3.23	405,919	11-11-11-10	35-17	9.74	528,746	6.02	450,611	Off		Off		Off		Off	
02 22 06	0725	Off		3.35	372,584	Off		3.27	409,749	12-12-12-12x	35-22	7.26	535,189	6.80	458,840	Off		Off		Off		Off	
02 23 06	0740	Off		3.35	377,366	Off		3.28	414,224	7-7-6-6	36-22	7.37	541,842	6.66	463,079	Off		Off		Off		Off	
02 24 06	0705	Off		3.32	381,975	Off		3.27	418,569				548,530		469,330	Off		Off		Off		Off	
02 27 06	0655	Off		3.44	396,133	Off		3.16	431,717	9-8-8-7	36-23	7.76	570,261	6.21	487,512	Off		Off		Off		Off	
02 28 06	0655	Off		3.39	400,831	Off		3.06	435,938	9-9-9-8			577,518		493,414	Off		Off		Off		Off	
03 01 06	0710	Off		3.44	405,613	Off		2.95	440,074	10-10-9-8	36-24	7.96	584,994	6.09	499,410	Off		Off		Off		Off	
03 02 06	0645	Off	21,023	3.36	410,277	Off	0	2.84	444,072	11-10-10-9	36-24	8.03	592,401	6.01	505,061	Off		Off		Off		Off	
03 03 06	0645	Off		3.32	414,970	Off		2.87	447,948	12-11-10-10x	36-24	8.04	600,080	5.90	510,717	Off		Off		Off		Off	
03 06 06	0700	Off		3.28	428,951	Off		2.74	459,305	8-8-7-6			625,195		528,579	Off		Off		Off		Off	
03 07 06	0700	Off		3.27	433,371	Off		2.67	462,879	8-8-7-6	36-25	8.26	633,278	5.56	534,022	Off		Off		Off		Off	
03 08 06	0655	Off		3.30	437,833	Off		2.72	466,605	9-9-8-7	36-25	8.33	641,530	5.47	539,369	Off		Off		Off		Off	
03 09 06	0700	Off		3.28	442,377	Off		2.69	470,329	10-10-9-7x	36-25	8.36	649,723	5.38	544,651	Off		Off		Off		Off	
03 10 06	0715	Off		3.25	442,420	Off		2.72	470,364				650,774		545,321	Off		Off		Off		Off	
03 13 06	0640	Off	21,023	2.92	455,417	Off	0	2.65	481,414	8-7-7-6	37-26	8.78	677,554	5.19	561,698	Off		Off		Off		Off	0

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2006

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Gallery G-1		Injection Gallery G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
03.14.06	0705	Off		2.97	459,513	Off	0	2.70	485,169	8-8-7-7	37-26	8.83	686,727	5.03	568,847	Off		Off		Off		Off	0
03.15.06	1100	SYSTEM OFF FOR PIPING AND PUMP MAINTENANCE																					
03.16.06	0715	Off		3.13	463,238	Off		2.72	488,365	13-13-13-13	37-26	8.79	694,825	5.08	571,436	Off		Off		Off		Off	
03.17.06	0645	Off		3.06	467,696	Off		3.28	492,176	17-17-17-17x	37-26	8.50	704,317	4.77	576,762	Off		Off		Off		Off	
03.20.06	0650	Off		3.07	480,611	Off	0	3.35	506,154	17-17-17-17	37-26		735,109		591,669	Off		Off		Off		Off	
03.21.06	0700	SYSTEM OFF TO CHANGE GRANULAR ACTIVATED CARBON IN CARBON VESSEL # 1																					
03.22.06	0635	Off		2.88	482,714	2.90	199	2.95	508,413	17-17-17-17	36-35	9.66	740,280	4.68	593,970	Off		Off		Off		Off	
03.23.06	0640	Off	21,023	2.90	485,801	3.02	498	2.97	511,555	17-18-18-17	36-35	9.54	750,322	4.96	598,916	Off		Off		Off		Off	
03.24.06	0645	Off		2.84	487,160	2.88	1,928	2.92	513,005	17-18-18-17x			755,412		601,461	Off		Off		Off		Off	
03.27.06	0650	Off		2.72	497,822	3.21	2,745	2.93	523,960	4 in/6 out	36-35	9.48	790,957	5.10	619,272	Off		Off		Off		Off	
03.28.06	0630	Off		2.79	501,414	3.14	4,452	2.93	527,694	4 in/6 out	36-34	5.11	799,873	5.05	625,939	Off		Off		1.81	2,557	Off	
03.29.06	0650	Off		2.76	504,684	3.20	5,221	2.99	531,259	4 in/6 out	37-33	5.08	804,704	4.96	632,771	Off		Off		1.76	5,108	Off	
03.30.06	0700	Off	21,023	2.79	508,074	3.00	6,567	3.06	534,955	4 in/6 out	37-32	5.01	811,413	4.88	639,515	Off		Off		1.74	7,529	Off	
03.31.06	0640	Off	21,023	2.79	511,604	Off	7,244	3.11	539,096	5 in/6 out	38-32		816,733		644,812	Off		Off			9,359	Off	
04.03.06	0700	Off		2.90	521,782	2.98	8,054	3.13	549,975	5 in/6 out	48-37	4.37	834,137	5.71	667,821	Off		Off		1.74	16,002	Off	
04.04.06	0645	Off		2.92	524,974	2.94	8,175	3.07	553,641	5 in/6 out	49-36	4.30	840,252	5.61	675,826	Off		Off		1.71	18,082	Off	
04.05.06	0700	Off		2.97	528,094	2.97	8,175	3.20	557,284	5 in/6 out	51-35	4.18	846,079	5.52	683,262	Off		Off		1.66	20,100	Off	
04.06.06	0700	Off		2.77	531,316	3.05	8,192	3.27	560,858	5 in/6 out	52-35	4.04	851,445	5.31	690,639	Off		Off		1.61	22,122	Off	
04.07.06	0650	Off		2.79	533,992	3.02	8,192	3.35	564,337	5 in/6 out	54-31	3.92	856,827	5.19	698,040	Off		Off		1.57	24,141	Off	
04.10.06	0645	Off		2.86	542,695	3.00	8,192	3.14	571,966	7 in/6 out	51-35	4.14	871,992	5.69	718,356	Off		Off		1.65	30,203	Off	
04.11.06	0645	Off	21,023	2.70	545,620	3.03	8,192	3.20	575,263	7 in/6 out	54-32	3.33	877,012	4.41	725,261	Off		Off		1.59	32,246	Off	
04.12.06	0645	SYSTEM OFF FOR MAINTENANCE																					
04.20.06	0730	Off		2.67		2.99		3.20		6 in/5 out	37-33	5.73	0	3.35	0	Off		Off		1.25	0	Off	0
04.21.06	0815	Off		2.67	549,776	2.87	8,581	3.20	580,251	6 in/5 out	37-32	5.63	7,178	3.37	4,361	Off		Off		1.39	1,745	Off	
04.24.06	0830	Off		2.74	559,945	2.92	20,908	3.27	592,475	6 in/5 out	39-31	5.51	27,176	3.35	16,699	Off		Off		1.25	6,624	Off	
04.25.06	1330	Off		2.70	564,017	2.90	25,793	3.32	598,152	6 in/5 out	40-30	5.42	35,030	3.30	21,300	Off		Off		1.23	8,470	Off	
04.26.06	1005	Off		Off		2.88	29,274	Off		6 in/5 out	45-38	Off		3.70	24,212	Off		Off		1.39	9,618	Off	
04.28.06	1435	Off		Off		2.86	38,148	Off		6 in/5 out	44-37	Off		3.69	31,591	Off		Off		1.45	12,565	Off	
05.01.06	1445	Off		Off		2.88	50,139	Off		6 in/5 out	44-38	Off		3.97	41,680	Off		Off		1.48	16,614	Off	
05.02.06	1435	Off		Off		2.86	54,331	Off		6 in/5 out	44-37	Off		4.05	45,244	Off		Off		1.51	17,948	Off	
05.03.06	1425	Off		Off		2.85	58,287	Off		6 in/5 out	44-38	Off		4.12	48,788	Off		Off		1.52	19,275	Off	
05.04.06	1345	Off		Off		2.85	62,214	Off		6 in/4 out	44-37	Off		4.14	52,297	Off		Off		1.53	20,588	Off	
05.05.06	1530	Off	21,023	Off	564,048	2.83	68,210	Off	598,194	6 in/4 out	44-37	Off		4.18	56,126	Off		Off		1.51	22,022	Off	
05.08.06	0800	Off		Off		2.86	73,469	Off		6 in/4 out	42-36	Off		4.35	65,730	Off		Off		1.52	25,260	Off	
05.09.06	0705	Off		Off		2.81	76,073	Off		6 in/4 out	44-37	Off		4.34	69,060	Off		Off		1.48	26,866	Off	
05.10.06	0940	Off		Off		2.81	79,050	Off		6 in/4 out	42-37	Off		4.63	72,871	Off		Off		1.41	28,274	Off	
05.11.06	0750	Off		Off		2.83	81,565	Off		6 in/4 out	40-34	Off		4.68	76,072	Off		Off		1.43	29,435	Off	
05.12.06	1525	Off		Off		2.83	85,102	Off		6 in/4 out	40-34	Off		4.86	80,497	Off		Off		1.39	31,017	Off	
05.15.06	0735	Off		Off		2.76	92,324	Off		6 in/4 out	40-34	Off		5.24	89,715	Off		Off		1.39	33,823	Off	
05.16.06	0800	Off		Off		2.70	95,066	Off		6 in/4 out	40-34	Off		5.24	93,248	Off		Off		1.47	34,703	Off	
05.17.06	0805	Off		Off		2.74	97,783	Off		6 in/4 out	40-35	Off		5.22	96,682	Off		Off		1.45	35,560	Off	
05.18.06	1305	Off		Off		2.74	101,037	Off		6 in/4 out	40-34	Off		5.00	100,839	Off		Off		1.48	36,600	Off	
05.19.06	1545	Off		Off		2.76	104,034	Off		6 in/4 out	40-34	Off		5.08	104,674	Off		Off		1.45	37,559	Off	
05.22.06	1310	Off		Off		2.74	111,850	Off		6 in/4 out	40-34	Off		5.12	114,646	Off		Off		1.42	40,052	Off	
05.23.06	1435	Off		Off		2.76	114,706	Off		6 in/4 out	40-34	Off		5.12	118,257	Off		Off		1.50	40,955	Off	
05.24.06	0755	Off		Off		2.77	116,662	Off		6 in/4 out	40-35	Off		5.12	120,695	Off		Off		1.43	41,565	Off	
05.25.06	0815	Off	21,023	Off	564,048	2.76	119,403	Off	598,194	6 in/4 out	40-35	Off		5.12	124,122	Off		Off		1.45	42,421	Off	
05.26.06	0825	Off		Off		2.76	122,112	Off		6 in/4 out	40-35	Off		5.14	127,561	Off		Off		1.43	43,282	Off	
05.30.06	0800	Off		Off		2.76	133,651	Off		5 in/4 out	40-35	Off		5.16	144,249	Off		Off		1.36	46,646	Off	
05.31.06	0735	Off		Off		2.77	137,475	Off		5 in/4 out	39-34	Off		5.16	148,821	Off		Off		1.37	47,491	Off	0

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2006

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Galley G-1		Injection Galley G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
06 01 06	0800	Off		Off		2.77	141,406	Off		5 in/4 out	39-34	Off		5.14	153,562	Off		Off		1.38	48,387	Off	0
06 02 06	0730	Off		2.77	564,048	2.74	145,227	3.32	598,194	5 in/4 out	40-34	5.51	35,092	5.19	158,119	Off		Off		1.30	49,201	Off	
06 05 06	0800	Off		2.23	572,695	2.67	156,816	3.13	610,440	3 in/4 out	40-34	5.42	52,192	5.05	174,193	Off		Off		1.27	52,817	Off	
06 06 06	0745	Off		2.42	575,478	2.67	160,504	3.13	614,454	3 in/4 out	43-30	5.16	57,947	4.35	179,142	Off		Off		1.10	53,743	Off	
06 07 06	0810	Off		2.46	578,901	2.63	164,276	3.14	618,568	5 in/4 out	45-28	5.04	63,902	4.36	184,578	Off		Off		1.03	54,754	Off	
06 08 06	0830	Off		2.60	582,318	2.63	168,033	3.16	622,668	8 in/4 out	46-25	4.71	69,070	3.98	189,767	Off		Off		1.48	55,973	Off	
06 09 06	0900	Off		2.60	585,766	2.63	171,824	3.18	626,804	16 in/4 out	49-23	4.54	74,096	3.79	194,825	Off		Off		1.41	57,230	Off	
06 12 06	0815	Off		2.74	595,211	2.58	181,959	2.76	636,060	64in/4 out x	45-25	4.87	87,726	4.07	207,882	Off		Off		1.54	61,025	Off	
06 13 06	0815	Off	21,023	2.70	598,514	2.93	185,929	2.76	641,384	5 in/4 out	50-21	4.47	92,745	3.77	212,726	Off		Off		1.41	62,279	Off	
06 14 06	0830	Off		2.51	598,841	2.58	186,308	2.79	641,834	5 in/4 out	48-24	4.78	93,292	4.04	213,217	Off		Off		1.45	62,416	Off	
06 15 06	0830	Off		2.63	602,131	2.55	189,866	2.65	645,543	8 in/4 out	49-23	4.75	98,338	4.04	218,260	Off		Off		1.79	63,876	Off	
06 16 06	0855	Off		2.71	605,570	2.62	193,647	2.69	649,404	13 in/4 out	50-23	4.87	103,800	4.30	223,525	Off		Off		1.97	65,296	Off	
06 19 06	0810	Off		2.69	615,159	2.59	203,084	2.67	658,805	21 in/4 out x	47-26	4.52	116,136	5.09	237,133	Off		Off		2.12	68,134	Off	
06 20 06	0745	Off											116,630		237,748	Off		Off			68,324	Off	
06 21 06	1020	Off		3.02	619,655	3.07	207,582	2.65	662,974	4 in/4 out	46-26	4.59	121,800	5.19	244,217	Off		Off		1.99	69,553	Off	
06 22 06	0855	Off		2.51	622,833	2.98	211,182	2.62	666,507	5 in/4 out	48-26	4.64	126,611	5.14	249,136	Off		Off		1.21	71,003	Off	
06 23 06	0855	Off		2.51	626,204	2.32	215,725	2.58	670,112	4 in/4 out	49-27	4.59	131,771	5.00	254,183	Off		Off		1.19	72,501	Off	
06 26 06	0935	Off		2.32	636,376	2.42	225,891	2.65	681,019	11 in/4 out	49-29	5.11	149,748	4.48	268,039	Off		Off		1.21	76,702	Off	
06 27 06	0820	Off	21,023	2.35	639,064	2.42	228,998	2.60	684,442	16 in/4 out x	50-29	4.78	155,562	3.81	272,337	Off		Off		1.27	78,083	Off	
06 28 06	1455	Off		2.37	642,640	2.47	233,155	2.69	689,095	5-4	50-30	4.89	163,226	4.07	278,208	Off		Off		1.36	80,020	Off	
06 29 06	1530	Off		2.18	645,460	2.46	236,575	2.58	692,666	5-4	50-30	4.76	169,440	3.81	282,686	Off		Off		1.36	81,736	Off	
06 30 06	1415	Off		2.26	648,004	2.51	239,761	2.63	695,699	5-4	51-31	4.83	175,127	3.95	288,863	Off		Off		1.45	83,346	Off	
07 05 06	1400	Off	21,023	2.25	648,025	1.91	252,780	2.70	695,725	6-4	46-31	5.42	185,792	4.05	294,778	Off		Off		1.21	85,942	Off	
07 06 06	0845	Off		2.23	650,138	2.70	255,504	2.69	698,440	7-4	46-30	5.26	190,763	4.08	298,701	Off		Off		1.23	86,759	Off	
07 07 06	1455	Off		2.17	653,531	2.70	259,894	2.65	702,621	7-4	47-30	4.94	198,547	3.88	303,765	Off		Off		1.17	88,062	Off	
07 10 06	0900	Off		2.19	662,124	2.70	269,537	2.56	711,004	18-4 x	50-30	4.68	215,089	3.91	315,398	Off		Off		1.37	91,971	Off	
07 11 06	0835	Off		2.70	665,386	2.76	273,252	2.58	713,940	5-4	51-30	4.32	221,149	3.30	320,279	Off		Off		1.36	93,739	Off	
07 12 06	1600	Off		2.70	669,737	2.95	277,785	2.69	717,944	5-4	54-31	4.30	229,100	2.71	325,744	Off		Off		1.19	95,872	Off	
07 13 06	1500	Off		2.70	672,962	2.92	280,365	2.58	720,960	6-4	41-38	5.49	235,454	4.39	330,882	Off		Off		1.39	97,533	Off	
07 14 06	1435	Off		2.65	676,258	3.02	283,023	2.69	724,280	6-4	41-37	5.49	242,043	3.97	335,926	Off		Off		1.50	99,178	Off	
07 17 06	0730	Off		2.65	685,410	2.65	293,472	2.67	734,069	7-4	41-36	5.35	255,535	3.94	345,959	Off		Off		1.42	102,508	Off	
07 18 06	1545	Off		2.67	690,217	2.85	297,906	0.00	734,069	8-4	41-37	5.75	262,228	4.05	350,778	Off		Off		1.34	104,701	Off	
07 19 06	1300	Off		2.69	693,741	3.11	301,845	2.62	734,069	13-4	42-38	6.00	266,695	4.16	353,939	Off		Off		1.21	104,994	Off	
07 20 06	0900	Off		2.67	696,548	2.70	304,790	2.58	737,089	16-4 x	41-37	6.05	272,560	4.18	358,046	Off		Off		1.25	105,934	Off	
07 21 06	0850	Off		2.72	699,773	2.69	308,362	2.60	740,613	5-4	41-38	6.14	279,328	4.30	362,746	Off		Off		1.01	106,918	Off	
07 24 06	0830	Off		2.70	709,976	2.76	319,813	2.63	751,582	5-4	41-38	5.92	300,105	5.02	378,783	Off		Off		0.22	108,822	Off	
07 25 06	0805	Off		2.72	713,291	2.79	323,685	2.70	755,225	5-4	41-38	5.87	306,777	5.00	384,498	Off		Off		1.37	109,919	Off	
07 26 06	0810	Off		2.62	716,684	2.85	327,652	2.72	758,057	6-4	42-38	5.87	313,610	5.16	390,578	Off		Off		1.34	111,043	Off	
07 27 06	1450	Off		2.63	721,004	2.88	332,794	2.72	763,953	7-4	43-39	5.81	322,415	5.17	398,241	Off		Off		1.25	112,481	Off	
07 28 06	0845	Off		2.67	723,515	2.90	335,806	2.69	766,784	13-4	43-39	5.78	327,684	5.08	402,922	Off		Off		1.21	113,342	Off	
07 31 06	0845	Off		2.70	732,803	2.81	345,458	2.48	774,936	21-4 x	43-40	5.96	346,824	4.63	418,570	Off		Off		0.64	114,954	Off	
08 01 06	1515	Off	21,023	2.65	736,933	2.72	349,849	2.46	777,751	5-4	40-36	5.33	355,545	5.21	426,074	Off		Off		1.43	116,529	Off	
08 02 06	0845	Off		2.67	739,385	2.79	352,587	2.46	779,712	6-4	40-36	5.08	360,084	5.17	430,829	Off		Off		1.03	117,362	Off	
08 03 06	0805	Off		2.56	742,662	2.77	356,326	2.55	782,397	6-4	40-36	4.90	366,092	4.96	437,045	Off		Off		1.79	117,833	Off	
08 04 06	0915	Off		2.49	746,196	2.40	359,914	2.56	785,454	6-4	40-36	4.92	371,635	4.84	442,744	Off		Off		1.68	119,949	Off	
08 07 06	0935	Off		2.51	756,379	2.40	370,190	2.62	794,969	8-4	39-35	4.91	387,182	4.62	458,617	Off		Off		1.77	124,610	Off	
08 08 06	0750	Off		2.53	759,500	2.44	373,246	2.60	797,831	8-4	39-35	4.88	392,328	4.78	456,586	Off		Off		1.52	125,600	Off	
08 09 06	1350	Off		2.44	763,709	2.40	377,327	2.65	801,432	14-4	39-35	5.02	399,141	4.91	470,182	Off		Off		1.66	126,902	Off	
08 10 06	1445	Off		2.37	767,212	2.33	380,601	2.53	804,237	20-4 x	37-34	4.49	404,092	4.95	473,536	Off		Off		1.12	127,924	Off	
08 11 06	1430	Off		2.32	770,303	2.40	383,598	2.55	807,433	5-4	37-34	4.51	407,707	4.95	477,348	Off		Off		1.11	128,540	Off	0

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2006

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Gallery G-1		Injection Gallery G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
08 14 06	0800	Off	21,023	2 30	777,788	2 32	390,976	2 55	814,962	6-4	36-32	4 70	420,004	4 71	490,538	Off		Off		1 27	130,970	Off	0
08 15 06	0940			2 30	780,924	2 33	394,082	2 56	817,858	6-4	36-32	4 76	424,707	4 84	495,733	Off		Off		1 34	131,972	Off	
08 16 06	0800			2 25	783,867	2 35	396,605	2 60	820,382	7-4	37-33	4 87	429,104	5 07	500,480	Off		Off		1 61	132,880	Off	
08 17 06	0900			2 17	786,821	2 32	399,409	2 62	823,600	9-4	37-34	5 16	434,262	5 03	505,962	Off		Off		1 56	133,899	Off	
08 18 06	0805			2 62	789,698	2 35	402,018	2 60	826,442	13-4x	38-34	5 23	439,241	5 10	510,937	Off		Off		2 24	135,487	Off	
08 18 06	1400	SYSTEM OFF FOR VAULT MAINTENANCE																					
08 28 06	0745			2 63	790,407	2 44	402,544	2 65	827,173	5-4	38-34	5 17	442,048	4 78	513,726	Off		Off		1 84	136,855	Off	
08 29 06	0800			2 59	794,042	2 42	405,125	2 37	830,649	6-4	33-29	5 04	446,681	4 27	517,808	Off		Off		2 94	139,095	Off	
08 30 06	0940			2 68	798,081	2 37	408,148	2 37	834,250	6-4	33-29	5 11	452,040	4 34	522,641	Off		Off		1 43	140,793	Off	
08 31 06	1355			2 72	802,515	2 33	411,310	2 28	838,069	7-4	37-33	5 83	467,800	5 48	528,604	Off		Off		1 86	143,050	Off	
09 01 06	0750	Off	21,023	2 68	805,254	2 35	413,315	2 30	840,436	7-4	37-33	6 00	462,129	5 59	532,398	Off		Off		1 94	144,419	Off	
09 05 06	1520			2 57	820,760	2 35	424,369	2 32	852,191	21-3x	37-32	6 50	486,773	5 21	550,440	Off		Off		3 31	153,231	Off	
09 07 06	0745			2 52	824,072	2 88	426,794	2 44	855,500	8-4	42-38	6 50	493,648	5 72	555,318	Off		Off		1 91	156,061	Off	
09 08 06	0740			2 63	827,263	2 99	429,886	2 44	858,768	7-4	43-38	6 43	500,737	5 62	560,523	Off		Off		1 87	156,354	Off	
09 11 06	0835			2 58	837,036	2 83	438,081	2 46	867,042	8-4	43-38	6 02	521,020	4 93	575,364	Off		Off		1 70	161,008	Off	
09 12 06	0800			2 65	840,214	2 83	440,712	2 44	869,672	8-4	51-50	5 42	528,303	5 19	580,626	Off		Off		1 86	163,555	Off	
09 13 06	0750			2 56	843,290	2 79	443,380	2 42	872,339	9-4	52-50	5 51	536,054	4 95	586,009	Off		Off		1 68	166,057	Off	
09 14 06	0830			2 56	846,343	2 63	446,070	2 26	875,029	11-4	53-51	5 54	544,185	4 76	591,553	Off		Off		1 48	168,340	Off	
09 15 06	0900			2 65	849,470	2 67	448,768	2 21	877,727	15-4x	54-52	5 52	552,286	4 58	597,084	Off		Off		1 29	170,327	Off	
09 18 06	0910			2 63	858,125	2 58	457,441	2 42	885,278	5-4	55-53	5 09	575,530	3 63	613,646	Off		Off		1 21	174,436	Off	
09 19 06	1030			2 44	860,785	2 59	454,160	2 23	887 938	5-4	55-53	5 04	538,013	3 42	618,880	Off		Off		2 17	179,035	Off	
09 20 06	0825			2 70	862,928	3 02	456,239	2 21	890 037	6-4	57-55	4 97	589,523	3 38	623,401	Off		Off		1 96	181,382	Off	
09 22 06	1530			2 63	868,274	2 97	461,584	2 77	895,370	11-4	58-57	4 75	605,308	2 95	633,323	Off		Off		1 61	186,166	Off	
09 25 06	0815			2 85	874,776	3 11	468,085	2 74	901,872	21-4x	50-48	5 66	626,008	3 05	644,931	Off		Off		2 02	193,362	Off	
09 26 06	1440			2 66	877,577	2 85	470,887	2 74	904,673	5-4	46-45	9 72	636,082	3 38	648,402	Off		Off		1 07	194,828	Off	
09 27 06	1245			2 80	880,059	2 70	472,951	2 62	907155	5-4	57-56	8 60	644,733	3 77	652,123	Off		Off		2 25	197,023	Off	
09 28 06	1515			2 72	883,036	2 86	475,919	2 58	910,132	7-4	58-55	7 20	655,072	4 45	658,264	Off		Off		1 32	198,844	Off	
09 29 06	1105	Off	21,023	2 72	885,272	2 81	478 155	2 58	912,368	7-4	54-52	7 28	661,888	4 79	662,633	Off		Off		0 86	199 806	Off	
10 03 06	0755	2 89	21,023	2 51	895,781	2 81	488,605	2 47	922,819	12-4	58-56	7 30	694,997	4 95	685,049	Off		Off		1 20	205,231	Off	
10 04 06	0915	2 82	23,814	2 56	899,527	2 77	491,356	2 39	925 569	17-4 x	58-56	7 28	705,900	4 84	692,332	Off		Off		1 27	207,053	Off	
10 05 06	0835	Off	23,814	2 58	903,065	2 77	493,973	2 42	928,186	5-4	58-56	7 37	714,627	4 88	698,171	Off		Off		1 15	208,339	Off	
10 06 06	1135			2 40	907,029	2 72	497 345	2 56	931,230	5-4	60-60	7 65	724,675	4 79	704,701	Off		Off		1 25	210,043	Off	
10 10 06	1510			2 56	921,828	2 10	510,770	2 23	942,431	15-4	60-60	7 47	765,163	4 62	730,078	Off		Off		Off		Off	
10 11 06	1220			2 42	924,825	2 92	514,260	2 25	944,765	17-4 x	60-60	7 40	774,350	4 45	735,758	Off		Off		Off		Off	
10 12 06	1340			2 42	928,161	3 07	518,480	2 44	946,940	5-4	60-60	7 26	785,387	4 19	742,105	Off		Off		Off		Off	
10 13 06	1510			1 66	930,213	2 95	521,683	2 32	949,459	8-4	60-60	7 13	796,163	3 86	748,052	Off		Off		Off		Off	
10 16 06	1225			3 31	941,441	2 90	531,550	3 09	959,876	8-4	60-60	6 98	822,788	3 30	761,654	Off		Off		Off		Off	
10 17 06	0825			2 44	943,641	2 65	533,939	2 69	962,323	12-4	60-60	7 35	829,980	3 23	764,906	Off		Off		Off		Off	
10 18 06	0825			2 49	946,346	2 67	536,824	Off		15-4	60-60	7 30	838,814	2 98	768,543	Off		Off		Off		Off	
10 19 06	1110			2 89	950,237	2 74	541,013	Off		17-4 x	60-60	7 06	848,484	4 01	772,436	Off		Off		Off		Off	
10 20 06	0810			3 08	953,845	2 69	544,327	2 58	962,323	5-4	60-60	6 81	854,419	9 05	777,091	Off		Off		Off		Off	
10 23 06	1455			3 48	965,360	2 53	556,298	2 58	966,712	5-4	60-60	6 31	879,728	7 46	806,828	Off		Off		Off		Off	
10 24 06	1310	Off	23,814	2 78	968 957	2 55	559,704	2 62	970,157	7-4	60-60	6 31	886,120	7 48	814,475	1 00	0	1 00	0	1 00	210,043	Off	
10 25 06	1600			2 77	973 343	2 53	563,777	2 63	974,337	9-4	60-60	5 76	892,826	5 65	821,138	1 11	805	1 06	780	1 05	210,830	Off	
10 26 06	0750			2 85	975,949	2 56	566,127	2 63	976,772	9-5	60-60	6 84	898,515	4 05	824,817	1 32	1,639	1 05	1,337	1 12	211,268	Off	
10 27 06	1530	2 25	23,814	2 28	981,139	2 28	570,343	2 67	981,683	15-5	60-60	7 08	905,514	4 10	830,068	1 32	3,356	1 41	2 756	1 05	212,651	Off	
10 30 06	0800	2 78	33,372	2 26	988,431	2 49	579,514	2 62	990 073	20-6 x	60-60	7 23	924,869	4 31	841,348	1 50	7,136	0 89	3,517	1 10	215,581	Off	
10 31 06	0720	2 64	36,884	2 52	991,509	2 48	582,982	2 55	993,352	5-6	60-60	7 30	934,056	4 48	846,860	1 40	9,020	0 87	4,602	1 19	217,009	Off	
11 01 06	1610	2 63	41,671	2 47	996,077	2 47	587,252	2 44	997 690	5-6	60-60	7 15	947,791	4 46	855,507	Off	9,020	0 80	5,953	1 27	219,262	Off	0

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2006

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4				Injection Galley G-1		Injection Galley G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Bag Filter	Carbon	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
11.02.06	1525	2.65	44,892	2.61	998,990	2.45	590,103	2.42	100,496	5-6	60-60	6.96	957,295	4.41	861,384	Off	9,020	0.80	7,027	1.23	220,811	Off	0
11.03.06	1605	2.70	48,099	2.59	1,00,1749	2.51	592,714	2.30	1,002,922	8-5	60-60	6.84	966,944	4.36	867,741	Off		0.89	8,239	1.21	222,417	Off	
11.06.06	0825	2.70	56,602	2.72	1,00,9286	2.67	599,562	2.14	1,009,172	17-3x	60-60	6.43	991,478	3.91	833,108	Off		0.89	11,234	.081	226,003	Off	
11.07.06	1055	2.70	60,184	2.52	1,012,268	2.72	603,187	2.32	1,011,807	5-5	60-60	6.87	1,001,890	3.61	888,798	Off		1.01	12,633	1.14	227,819	Off	
11.09.06	1550	2.81	64,230	2.52	1,015,897	0/clog	603,187	2.42	1,015,292	Empty	60-60	6.91	1,011,840	3.38	893,885	Off		1.21	14,375	0.60	228,683	Off	
11.13.06	0905	2.18	67,369	2.21	1,019,079	2.28	606,470	2.30	1,018,804	17-4x	60-60	9.15	1,025,016	3.24	898,331	Off		1.01	15,829	1.17	230,388	Off	
11.14.06	1545	2.16	70,479	2.23	1,022,290	2.25	609,710	2.26	1,021,858	5-5	60-60	NR	1,025,016	NR	NR	Off		NR	NR	NR	NR	Off	
11.16.06	1600	2.34	73,848	2.22	1,025,487	2.23	612,921	2.21	1,025,040	7-5	60-60	9.49	1,038,682	3.14	902,853	Off		0.89	17,111	0.75	231,448	Off	
11.17.06	1440	2.45	77,376	2.49	1,029,073	2.26	616,175	2.17	1,028,165	NR	60-60	9.41	1,052,232	3.02	907,202	Off		0.87	18,364	0.88	232,715	Off	
11.20.06	1130	2.69	81,250	2.42	1,032,558	0/clog	616,175	2.02	1,031,074	NR	60-60	9.37	1,065,725	2.98	911,493	Off		0.94	19,718	0/clog	-	Off	
11.21.06	1530	2.76	85,224	2.42	1,036,043	0/clog	616,175	2.03	1,033,997	6-5	60-60	9.27	1,079,074	2.54	915,151	Off		1.03	21,201	1.16	234,385	Off	
11.27.06	0905	2.65	89,040	2.42	1,039,528	2.30	619,487	1.71	1,036,459	21-5x	60-60	8.82	1,091,775	2.28	918,434	Off		1.42	23,245	0.97	235,781	Off	
11.28.06	1605	2.61	92,798	2.12	1,042,581	2.26	622,741	2.86	1,040,577	6-5	60-60	8.73	1,104,346	2.24	921,869	Off		0/clog	-	0.96	237,163	Off	
12.01.06	1400	2.54	96,456	2.23	1,045,792	2.14	625,822	2.88	1,044,724	NR	60-60	8.58	1,116,701	2.29	924,958	Off	9,020	1.01	24,699	1.21	238,905	Off	
12.04.06	0820	2.99	100,762	2.16	1,048,902	0/clog	625,822	2.88	1,048,871	6-5	60-60	7.20	1,127,069	1.78	927,521	Off		0.83	25,894	Off		Off	
12.05.06	1530	Off	100,762	Off	1,048,902	Off	625,822	Off	1,048,871	NR	60-60	6.99	1,137,135	1.21	929,263	Off		0.25	26,254	Off		Off	
12.06.06	1525	Off	100,762	Off	1,048,902	Off	625,822	Off	1,048,871	Off	60-60	6.79	1,146,813	0.93	930,602	Off		0.61	27,132	Off		Off	
12.07.06	1200	2.13	103,829	2.38	1,052,329	2.09	628,832	2.27	1,052,140	8-5	60-60	6.29	1,155,971	3.83	936,117	Off		Off		Off		Off	
12.08.06	1115	2.11	106,867	2.30	1,055,841	0/clog	628,832	2.69	1,056,014	10-5	51-49	6.50	1,165,331	3.05	940,509	Off		Off		Off		Off	
12.11.06	1320	1.89	109,589	2.16	1,058,751	0/clog	628,832	0/clog	1,056,014	12-5	47-40	6.57	1,174,792	3.35	945,333	Off		Off		Off		Off	
12.12.06	0820	2.16	112,699	2.24	1,061,977	2.60	632,576	2.42	1,059,499	Off	47-42	6.19	1,183,706	4.65	952,029	Off		Off		Off		Off	
12.13.06	1325	1.89	115,421	2.12	1,065,030	2.56	636,262	2.51	1,063,113	17-3x	47-40	6.12	1,192,519	4.55	958,581	Off		Off		Off		Off	
12.14.06		SYSTEM OFF FOR REPAIRS																					
12.15.06		SYSTEM OFF FOR REPAIRS																					
12.18.06	1425	2.09	118,430	1.98	1,067,881	1.87	638,955	2.51	1,066,727	5-5	50-35	5.88	1,200,986	4.32	964,802	Off		Off		Off		Off	
12.21.06	1520	1.33	120,345	0/clog	1,067,881	0/clog	638,955	2.55	1,070,399	5-5	54-30	5.45	1,208,834	4.01	970,576	Off		Off		Off		Off	
12.22.06	0855	2.51	123,959	2.27	1,071,370	0/clog	638,955	2.69	1,074,273	NR	57-25	5.06	1,216,120	3.70	975,904	Off		Off		Off		Off	
12.26.06	0845	2.56	127,645	0/clog	1,071,370	0/clog	638,955	Off	1,074,273	14-3	60-18	4.25	1,222,240	3.10	980,368	Off		Off		Off		Off	
12.27.06	1420	2.56	131,331	0/clog	1,071,370	0/clog	638,955	Off	1,074,273	18-3x	56-46	6.82	1,232,061	3.65	985,624	Off		Off		Off		Off	
12.27.06	0950	2.58	135,046	0/clog	1,071,370	0/clog	638,955	Off	1,074,273	4-5	55-45	7.18	1,282,400	3.75	991,024	Off	9,020	Off	27,132	Off	238,905	Off	0

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2007

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Galley G-1		Injection Galley G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
01 15 07	-	3 42	-	0/clog	1,071,370	0/clog	638,955	Off	1,074,273	NR	NR	2 18	1,282,400	4 38	991,024	Off	9,028	Off	27,132	Off	238,905	Off	0
01 16 07	1600	3 35	93,838	2 84	174,480	0 00	111,378	0 00	138,062	0-0	60-49	6 94	191,364	3 89	692,667	Off	9,028	Off	36,517	Off	36,670	Off	0
01 17 07	1045	3 42	95,542	2 91	177,037	0 00	111,378	0 00	138,062	16-5	60-50	6 91	199,032	3 58	696,602	Off	9,028	Off	36,517	Off	36,670	Off	0
01 18 07	1100	3 44	97,783	2 85	180,386	0 00	111,378	Off	NR	13-13-13-13	60-50	6 82	208,877	3 16	701,158	Off	9,028	Off	36,517	Off	36,670	Off	0
01 19 07	1017	3 53	98,931	2 92	182,122	0/clog	112,326	2 74	141,709	21-21-21-21	65-59	7 53	218,412	3 19	705,014	Off	9,028	Off	36,517	Off	36,670	Off	0
01 20 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 21 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 22 07	1100	1 89	99 511	2 24	189,588	0/clog	112,542	0/clog	141,898	0-0	60-60	2 43	250,234	2 65	716,633	Off	9,028	Off	36,517	Off	36,670	Off	0
01 23 07	1345	0/clog	100,584	0/clog	192,358	0/clog	112,542	0/clog	141,898	0-0	60-60	1 73	261,948	2 44	720,399	Off	9,028	Off	36,517	Off	36,670	Off	0
01 24 07	1400	1 89	101,895	2 05	194,718	0/clog	112,542	0/clog	141,898	0-0	60-60	7 20	272,277	2 22	723,378	Off	9,028	Off	36,517	Off	36,670	Off	0
01 25 07	1430	1 89	102,246	2 30	197,292	0/clog	112,542	0/clog	141,898	11-5-6	60-60	7 25	282,696	2 21	726,156	Off	9,028	Off	36,517	Off	36,670	Off	0
01 26 07	0854	1 73	102,270	0/clog	198,915	0/clog	112,542	0/clog	141,898	10-5-11-12	65-65	7 25	290,480	2 21	728,214	Off	9,028	Off	36,517	Off	36,670	Off	0
01 27 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 28 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 29 07	1300	2 67	109,411	1 94	206,066	0 91	113,331	1 77	148,546	14-14-14-14	60-60	6 72	321,264	0 00	728,352	Off	9,028	Off	36,517	Off	36,670	Off	0
01 30 07	1145	2.67	111,870	1 94	208,476	0.91	113,331	1 79	150,803	16-16-16-16	60-60	6 41	330,066	0 00	728,352	Off	9,028	Off	36,517	Off	36,670	Off	0
01 31 07	1200	2 65	113,958	1 79	210,531	0 86	113,331	1 84	152,789	18-18-18-18	65-65	6 24	338,182	0 00	728,352	Off	9,028	Off	36,517	Off	36,670	Off	0
02 01 07	NR	2 67	115,368	1 40	211,713	2.21	113,331	1 84	154,108	22-3	0/clog	6 00	343,434	7 00	728,491	Off	9,028	Off	36,517	Off	36,670	Off	0
02 02 07	1245	0/clog	117,116	0/clog	212,913	0/clog	115,085	0/clog	155,629	0-0	0/clog	6 1	353,140	3 07	733,933	Off	9,028	Off	36,517	Off	36,670	Off	0
02 03 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 04 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 05 07	1230	2 58	121,896	1 29	216,028	2 09	119 522	1 71	160 010	9-10-6-7	3-0	5 59	377,943	1 32	742,840	Off	9,028	Off	36,517	Off	36,670	Off	0
02 06 07	1430	0/clog	123,238	0/clog	216,987	0/clog	120,792	0/clog	161,237	0-0	6-0	5.26	386,097	0 95	744,285	Off	9,028	Off	36,517	Off	36,670	Off	0
02 07 07	1215	0/clog	124,228	0/clog	217,804	0/clog	121,683	0/clog	162,239	0-0	0-0	4.97	392,593	0 72	744,954	Off	9,028	Off	36,517	Off	36,670	Off	0
02 08 07	1242	2 70	125,745	1 29	218,792	2.32	121,724	1 63	163,474	0-0	By-pass	4 70/4 80	399,557	0.73/2 20	745,653	Off	9,028	Off	36,517	Off	36,670	Off	0
02 09 07	1345	0/clog	126,645	1 21	219,920	2.21	123,472	1 64	164,899	14-5	0-0	4 52	406,396	0 00	745,660	Off	9,028	Off	36,517	Off	36,670	Off	0
02 10 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 11 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 12 07	1330	0/clog	128 639	1 19	223,166	1 89	125,940	0 93	168,078	18-4	0-0	3 06	422,374	0/clog	745,660	Off	9,028	Off	36,517	Off	36,670	Off	0
02 13 07	1049	Off	128 639	Off	224,135	Off	126 347	Off	168,635	9-8.5	By-pass	4 20	NR	3.07	NR	Off	9,028	Off	36,517	Off	36,670	Off	0
02 14 07	0830	Off	128,639	1 22	224,797	1 84	126 677	0 23	168,918	0-0	0-0	0.00	425,878	3 21	749,103	Off	9,028	Off	36,517	Off	36,670	Off	0
02 15 07	1245	Off	128 639	1 21	225,683	1 68	126,711	0 25	169,127	16-5	0-0	0.00	425,879	3 21	753,930	Off	9,028	Off	36,517	Off	36,670	Off	0
02 16 07	NR	Off	128,639	Off	226,452	Off	126,711	Off	169,227	22-6-4-7	By-pass	3.41	425,893	3 71	757,732	Off	9,028	Off	36,517	Off	36,670	Off	0
02 17 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 18 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 19 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 20 07	1230	Off	128,639	1 22	279,120	Off	126,711	2 42	173,541	0-0	0-0	3 29	444,699	3 65	778,492	Off	9,028	Off	36,517	Off	36,670	Off	0
02 21 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 22 07	1230	Off	128,639	1 24	230 497	Off	126,711	2 40	176,165	0-0	0-0	3 15	453,496	3 41	787,903	Off	9,028	Off	36,517	Off	36,670	Off	0
02 23 07	1050	1 40	128,645	1 79	230,639	1 64	126,720	1 39	176,435	10-6 5	By pass	3 45	454,431	3 60	789,192	Off	9,028	Off	36,517	Off	36,670	Off	0
02 24 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 25 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 26 07	1230	1 36	128,645	1 73	235,227	Off	126,720	1 70	183,471	16-4	By-pass	0.00	472,547	0 00	801,912	Off	9,028	Off	36,517	Off	36,670	Off	0
02 27 07	1430	1 36	128,645	1 77	237,726	Off	126,720	1 64	185,913	17-4	By-pass	0 00	482,688	0 00	803,013	Off	9,028	Off	36,517	Off	36,670	Off	0
02 28 07	1317	1 40	128,645	1 72	240,020	1 42	126,724	1 73	188,049	5-6	By pass	2.10	491,365	2.59	803,954	Off	9,028	Off	36,517	Off	36,670	Off	0
03 01 07	1311	1 53	128,645	2 30	243,095	3.14	129,355	1 86	190,554	6-6	By-pass	0.00	504,080	0 00	805,366	Off	9,028	Off	36,517	Off	36,670	Off	0
03 02 07	1345	1 51	128,645	2 28	246,366	3.18	132,760	1 82	193,269	0-0	By-pass	0 00	516,156	0 00	808,310	Off	9,028	Off	36,517	Off	36,670	Off	0
03 03 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 04 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 05 07	1410	1 65	128 645	2 24	255,746	3 07	146,006	1 82	201,013	0-0	By-pass	0 00	550,940	0 00	815,907	Off	9,028	Off	36,517	Off	36,670	Off	0

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2007

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA									
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Gallery G-1		Injection Gallery G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
03.06.07	1425	1.73	128,645	2.26	258,962	3.02	150,316	1.75	203,715	15-5	0-0	0.00	562,570	0.00	818,332	Off	9,028	Off	36,517	Off	36,670	Off	0
03.07.07	1415	1.42	128,652	2.10	261,474	2.90	153,436	1.75	205,646	18-4	0-0	0.00	571,944	0.00	820,286	Off	9,028	Off	36,517	Off	36,670	Off	0
03.08.07	1345	1.01	128,652	Off	261,763	2.97	155,820	1.59	206,861	7-7	0-0	20.17	578,561	1.99	821,418	Off	9,028	Off	36,517	Off	36,670	Off	0
03.09.07	1157	1.14	128,652	1.61	261,779	2.85	159,117	1.70	208,959	6-7	By-pass	5.53	589,693	2.24	822,472	Off	9,028	Off	36,517	Off	36,670	Off	0
03.10.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03.11.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03.12.07	1500	Off	128,797	Off	267,387	Off	168,343	Off	214,208	8-6	NR	5.16	611,337	2.79	832,766	Off	9,028	Off	36,517	Off	36,670	Off	0
03.13.07	1445	1.98	129,398	1.87	269,164	3.00	171,348	1.66	215,882	10-5	NR	5.13	617,996	2.77	836,096	Off	9,028	Off	36,517	Off	36,670	Off	0
03.14.07	1500	2.07	130,498	1.80	270,815	3.13	174,410	2.03	217,554	12-5	NR	5.06	624,834	2.83	839,514	Off	9,028	Off	36,517	Off	36,670	Off	0
03.15.07	1030	2.14	131,754	1.87	272,251	3.13	176,877	1.86	218,989	14-8	NR	5.01	630,328	2.51	842,261	Off	9,028	Off	36,517	Off	36,670	Off	0
03.16.07	1030	Off	133,772	Off	214,028	Off	179,825	Off	220,756	0-0	NR	4.97	637,117	2.29	845,506	Off	9,028	Off	36,517	Off	36,670	Off	0
03.17.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03.18.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03.19.07	1200	Off	136,986	Off	216,921	Off	184,482	Off	223,717	23-4	NR	0.00	648,279	0.00	849,975	Off	9,028	Off	36,517	Off	36,670	Off	0
03.20.07	1430	Off	137,420	Off	277,324	Off	185,126	Off	224,165	23-4	NR	0.00	649,994	0.00	850,682	Off	9,028	Off	36,517	Off	36,670	Off	0
03.21.07	1505	2.04	137,853	1.93	277,728	2.97	185,760	2.19	224,625	6-7	By-pass	5.06	652,367	1.98	851,278	Off	9,028	Off	36,517	Off	36,670	Off	0
03.22.07	1330	Off	139,695	Off	279,392	Off	188,445	Off	226,557	0-0	NR	4.92	658,619	2.19	853,779	Off	9,028	Off	36,517	Off	36,670	Off	0
03.23.07	1230	2.18	141,723	1.66	280,980	2.86	191,213	2.09	228,536	7-7	NR	4.89	665,146	2.24	856,389	Off	9,028	Off	36,517	Off	36,670	Off	0
03.24.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03.25.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03.26.07	1300	2.31	148,013	1.40	285,098	2.95	199,609	1.96	234,276	10-6	NR	4.82	685,487	1.59	863,915	Off	9,028	Off	36,517	Off	36,670	Off	0
03.27.07	1420	2.32	150,265	1.40	286,310	2.95	202,561	1.87	236,153	12-5	NR	4.73	692,649	1.25	865,696	Off	9,028	Off	36,517	Off	36,670	Off	0
03.28.07	1045	2.34	151,966	1.59	287,327	3.00	204,753	2.10	237,589	15-5	NR	4.66	698,226	1.00	866,839	Off	9,028	Off	36,517	Off	36,670	Off	0
03.29.07	1500	Off	154,376	Off	288,848	Off	207,828	Off	239,776	22-4	NR	4.66	705,095	0.97	867,807	Off	9,028	Off	36,517	Off	36,670	Off	0
03.30.07	1215	Off	154,993	Off	289,322	Off	208,745	Off	240,418	7-7	NR	0.00	707,354	0.00	868,224	Off	9,028	Off	36,517	Off	36,670	Off	0
03.31.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.01.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.02.07	1430	2.18	163,738	1.65	296,154	3.02	221,261	Off	242,628	15-4	0-0	4.80	728,135	5.02	889,007	Off	9,028	Off	36,517	Off	36,670	Off	0
04.03.07	1115	Off	165,514	Off	297,412	Off	223,813	Off	242,628	22-4	NR	4.82	732,156	5.07	893,027	Off	9,028	Off	36,517	Off	36,670	Off	0
04.04.07	1520	2.13	168,247	1.43	299,349	2.97	227,752	Off	242,628	6-6	NR	4.80	739,273	4.93	900,146	Off	9,028	Off	36,517	Off	36,670	Off	0
04.05.07	1400	2.13	170,728	1.45	301,095	3.04	231,410	1.86	243,084	9-5	NR	4.78	745,651	4.98	906,523	Off	9,028	Off	36,517	Off	36,670	Off	0
04.06.07	1202	2.25	173,358	1.36	302,645	3.02	235,055	1.63	245,095	14-5	By-Pass	4.78	751,887	4.97	912,739	Off	9,028	Off	36,517	Off	36,670	Off	0
04.07.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.08.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.09.07	1230	Off	177,688	Off	304,050	Off	240,840	Off	248,430	23-?	NR	4.83	760,421	4.97	921,860	Off	9,028	Off	36,517	Off	36,670	Off	0
04.10.07	1015	Off	178,213	Off	304,050	Off	241,279	Off	248,867	23-3	NR	0.00	761,587	0.00	923,155	Off	9,028	Off	36,517	Off	36,670	Off	0
04.11.07	1230	2.56	181,669	Off	304,050	2.90	245,322	1.73	251,222	6-6	NR	0.00	767,350	0.00	929,557	Off	9,028	Off	36,517	Off	36,670	Off	0
04.12.07	1250	2.61	185,314	Off	304,050	2.95	249,494	1.63	253,565	6-6	NR	4.51	772,907	4.95	935,734	Off	9,028	Off	36,517	Off	36,670	Off	0
04.13.07	1030	2.63	188,661	2.49	304,145	3.00	253,297	1.64	255,573	6-6	By-pass	4.52	777,893	4.95	941,271	Off	9,028	Off	36,517	Off	36,670	Off	0
04.14.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.15.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.16.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.17.07	0930	2.47	201,735	Off	305,533	2.47	266,805	Off	265,937	13-5	NR	4.95	802,361	4.34	964,506	Off	9,028	Off	36,517	Off	36,670	Off	0
04.18.07	1215	2.54	205,686	Off	305,533	2.51	270,669	Off	265,937	17-4	NR	0.00	809,269	0.00	970,390	Off	9,028	Off	36,517	Off	36,670	Off	0
04.19.07	1030	2.58	208,635	Off	305,536	2.37	273,321	Off	265,937	19-4	NR	4.90	814,379	4.12	974,479	Off	9,028	Off	36,517	Off	36,670	Off	0
04.20.07	1114	1.25	210,101	1.35	305,543	2.10	274,713	1.61	265,940	22-4	By-pass	4.90	817,802	4.24	977,245	Off	9,028	Off	36,517	Off	36,670	Off	0
04.21.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.22.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.23.07	1415	Off	210,101	Off	305,543	Off	274,713	Off	265,944	0-0	NR	0.00	818,354	0.00	978,042	Off	9,028	Off	36,517	Off	36,670	Off	0
		04.20-07 - Shut off Recovery Wells off due to high level in Bioreactors 1 and 2														Off	9,028	Off	36,517	Off	36,670	Off	0

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2007

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4				Injection Galley G-1		Injection Galley G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Bag Filter	Carbon	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
04.24.07	1120	Off	210,101	Off	305,543	2.01	276,018	1.63	266,925	20-3	NR	2.16	820,574	2.14	980,263	Off	9,028	Off	36,517	Off	36,670	Off	0
04.25.07	1330	Off	NR	Off	NR	Off	NR	Off	NR	**22-2**	NR	2.30	823,512	2.00	983,201	Off	9,028	Off	36,517	Off	36,670	Off	0
04.26.07	1035	Off	210,101	0.00	305,543	1.96	218,343	Off	267,990	6-6	By-pass	NR	824,049	1.62	984,792	Off	9,028	Off	36,517	Off	36,670	Off	0
04.27.07	1127	2.00	212,619	1.36	307,147	1.52	280,326	1.57	269,898	6-6	By-pass	4.85	829,442	5.34	990,769	Off	9,028	Off	36,517	Off	36,670	Off	0
04.28.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.29.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.30.07	1430	Off	213,497	1.58	313,125	1.52	286,661	1.70	276,461	11-5	NR	4.02	843,327	6.08	NR	Off	9,028	Off	36,517	Off	36,670	Off	0
05.01.07	1030	Off	213,497	1.61	314,802	Off	287,301	1.79	278,417	14-4	NR	4.02	847,026	5.95	5,869	Off	9,028	Off	36,517	Off	36,670	Off	0
05.02.07	1215	0/clog	213,497	1.84	317,187	0/clog	287,301	1.87	280,948	19-4	NR	0.00	851,650	0.00	12,795	Off	9,028	Off	36,517	Off	36,670	Off	0
05.03.07	1245	0/clog	213,497	Off	318,651	Off	288,257	Off	282,318	**22-4**	NR	0.00	854,329	0.00	16,626	Off	9,028	Off	36,517	Off	36,670	Off	0
05.04.07	1349	2.16	213,526	2.24	319,497	2.03	288,904	1.96	282,951	7-8	Nr	5.02	856,433	5.12	19,438	Off	9,028	Off	36,517	Off	36,670	Off	0
05.05.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.06.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.07.07	1115	2.11	221,755	2.51	328,767	1.94	296,837	1.55	289,126	12-6	NR	5.16	872,773	4.58	35,368	Off	9,028	Off	36,517	Off	36,670	Off	0
05.08.07	1505	2.18	225,197	2.38	322,633	1.93	299,766	1.94	291,781	15-4	NR	5.26	880,144	4.34	40,315	Off	9,028	Off	36,517	Off	36,670	Off	0
05.09.07	1525	2.22	228,271	2.37	336,048	1.91	302,500	2.19	294,585	19-4	NR	5.37	886,462	4.12	45,427	Off	9,028	Off	36,517	Off	36,670	Off	0
05.10.07	0930	0/clog	229,734	0/clog	337,558	0/clog	303,774	0/clog	295,473	**22-2**	NR	5.33	889,514	4.05	47,645	Off	9,028	Off	36,517	Off	36,670	Off	0
05.11.07	1130	2.31	230,005	2.09	340,637	1.86	306,227	1.36	297,222	5-5	NR	5.61	896,037	3.83	52,067	1.09	9,042	1.08	36,867	1.00	36,676	Off	0
05.12.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.13.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.14.07	1300	1.98	242,334	2.00	349,052	1.84	313,459	1.31	302,884	16-4	NR	4.73	909,825	3.33	62,310	Off	9,042	0.00	36,913	0.00	36,670	Off	0
05.15.07	1230	2.02	245,099	1.94	351,677	1.82	315,751	1.55	304,662	18-2	NR	4.71	915,176	3.02	65,521	Off	9,042	Off	36,913	Off	36,670	Off	0
05.16.07	1240	2.04	247,825	2.00	354,322	1.82	318,071	0/clog	305,788	20-22	NR	4.73	920,363	2.66	67,664	Off	9,042	Off	36,913	Off	36,670	Off	0
05.17.07	1515	2.11	250,791	1.86	356,986	1.78	320,578	0/clog	305,788	**26-2**	NR	4.83	925,796	2.74	69,817	NR	10,671	NR	36,915	NR	36,680	Off	0
05.18.07	1256	1.89	253,075	1.89	359,028	1.71	322,374	2.05	305,795	5-5	NR	4.95	930,040	2.74	71,517	Off	10,671	1.21	36,935	Off	36,680	Off	0
05.19.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.20.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.21.07	1545	2.18	261,719	2.05	367,116	0/clog	323,140	1.86	313,337	14-4	NR	0.00	946,341	0.00	84,714	Off	10,671	0.00	37,263	0.00	37,263	Off	0
05.22.07	1230	2.25	264,364	2.19	369,695	0/clog	*323,140*	1.87	315,407	17-4	NR	4.92	951,239	4.97	*8,636*	Off	10,671	0.00	37,263	0.00	37,263	Off	0
05.23.07	0915	0/clog	266,793	0/clog	372,257	0/clog	*323,140*	0/clog	317,542	**20-4**	NR	0.00	955,189	0.00	91,793	Off	10,671	0.00	37,263	0.00	37,263	Off	0
05.24.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.25.07	0948	2.07	271,647	2.58	377,864	2.07	323,147	1.61	321,297	4-5	25-23	5.09	964,398	4.60	99,009	Off	10,671	0.65	37,293	0.00	37,263	Off	0
05.26.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.27.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.28.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.29.07	1515	1.82	282,405	2.09	392,773	2.16	335,478	0/clog	328,666	12-4	29-22	3.97	983,106	4.65	117,680	Off	10,671	0.80	40,311	0.00	36,690	Off	0
05.30.07	1530	0.81	283,778	2.00	395,574	2.10	338,620	0/clog	*328,666*	16-3	30-22	3.88	987,495	4.57	122,072	Off	10,671	0.87	40,726	0.00	36,690	Off	0
05.31.07	1600	0.83	248,814	1.98	398,336	2.12	341,581	0/clog	*328,666*	19-3	30-22	3.90	991,701	4.58	126,272	Off	10,671	0.72	40,956	0.00	36,690	Off	0
06.01.07	1213	1.36	285,643	1.93	400,487	2.12	343,748	0/clog	308,673	**20-2**	31-21	3.85	**994,846**	4.53	**129,421**	Off	10,671	0.76	41,005	0.00	36,690	Off	0
06.02.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.03.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.04.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.05.07	1330	1.40	292,498	1.96	410,841	2.09	355,138	2.19	340,307	11-4	35-20	3.78	NR	4.41	**15,173** Reset	Off	10,671	0.43	41,173	0.00	36,690	Off	0
06.06.07	1400	1.34	294,217	1.94	413,590	2.03	357,890	2.26	343,398	16-3	35-20	3.70	**4,865** Reset	4.32	15,736	Off	10,671	0.51	41,181	0.00	36,690	Off	0
06.07.07	1500	0/clog	295,918	0/clog	416,312	0/clog	360,608	0/clog	346,604	**21-3**	36-20	3.64	9,429	4.24	16,265	Off	10,671	0.51	*41,181*	0.00	36,690	Off	0
06.08.07	1313	1.58	297,050	2.10	417,824	2.10	362,130	2.60	348,552	6-4	36-19	3.76	12,249	4.22	16,593	Off	10,671	0.36	41,182	0.00	36,690	Off	0
06.09.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.10.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.11.07	1430	1.42	302,997	2.03	425,920	1.93	370,195	3.09	360,173	10-4	40-15	3.20	25,713	3.68	18,219	Off	10,671	0.96	43,834	0.00	36,690	Off	0

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2007

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA									
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Gallery G-1		Injection Gallery G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
06.12.07	1500	1.40	304,903	2.03	428,660	1.84	372,710	3.09	364,610	13-4	44-15	3.12	29,905	3.58	167,463	Off	10,871	0.90	44,625	0.00	36,690	Off	0
06.13.07	1345	1.44	306,643	2.07	431,000	1.80	374,750	3.16	368,400	18-3	46-15	2.96	33,713	3.38	192,080	Off	10,871	0.85	45,195	0.00	36,690	Off	0
06.14.07	1030	0/clog	308,139	0/clog	432,996	0/clog	376,503	0/clog	371,645	22-3	41-15	3.36	36,635	3.82	195,637	Off	10,871	0.69	45,447	0.00	36,690	Off	0
06.15.07	1159	1.45	309,059	1.94	434,224	1.82	377,673	3.35	373,989	23-2	40-24	4.19	39,182	4.41	918,717 reset	1.00	10,776	1.03	45,495	0.00	36,690	Off	0
06.16.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.17.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.18.07	1530	1.34	315,063	1.84	441,907	2.03	385,871	3.34	386,474	9-4	55-22	3.90	53,255	4.15	215,574	0.00	10,786	0.11	45,521	0.00	36,690	Off	0
06.19.07	1030	1.31	316,500	1.82	443,916	2.03	388,168	3.34	392,495	11-4	56-20	3.74	57,330	4.03	220,111	0.00	10,786	0.07	45,521	0.00	36,690	Off	0
06.20.07	1400	1.25	318,326	1.80	446,476	2.07	391,093	3.11	39,424	16-3	60-20	3.47	61,995	3.70	225,922	0.00	10,786	0.04	45,521	0.00	36,690	Off	0
06.21.07	1215	1.33	319,827	1.73	448,577	2.09	393,508	3.16	401,330	20-2	58-20	3.46	65,450	3.91	230,330	0.00	10,786	0.00	45,521	0.00	36,690	Off	0
06.22.07	1010	1.33	320,746	2.17	450,047	2.10	395,003	3.32	403,825	4-5	55-21	3.88	67,768	4.19	233,399	0.00	10,786	0.85	45,524	0.00	36,690	Off	0
06.23.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.24.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.25.07	1130	1.40	325,870	2.09	458,360	2.26	402,700	3.18	416,650	0-0	60-16	2.86	77,198	3.03	248,590	0.00	10,786	0.33	45,898	0.00	36,690	Off	0
06.26.07	1030	0/clog	326,475	2.10	460,500	2.30	404,970	3.04	19,667	10-4	65-15	2.73	79,771	2.88	252,539	0.00	10,786	0.18	45,898	0.00	36,690	Off	0
06.27.07	1000	0/clog	326,475	2.05	462,443	2.23	407,147	3.08	423,004	0-0	65-15	2.61	82,413	2.75	256,441	0.00	10,786	0.07	45,898	0.00	36,690	Off	0
06.28.07	1330	0/clog	326,475	1.84	464,665	2.27	408,109	3.11	426,676	4-5	30-22	4.04	85,538	3.23	260,787	0.00	10,786	0.76	45,907	0.00	36,690	Off	0
06.29.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06.30.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.01.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.02.07	1015	0/clog	336,186	0/clog	473,287	0/clog	419,193	0/clog	435,363	22-4	0-0	0.00	98,763	0.00	280,002	NR	NR	0.00	45,941	NR	NR	NR	NR
07.03.07	1135	2.11	337,546	1.45	474,480	2.16	420,700	2.01	435,890	22-?	54-18	3.41	100,095	3.79	282,539	NR	NR	0.00	45,941	0.00	36,690	NR	NR
07.04.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.05.07	1030	2.13	343,330	2.02	479,712	2.12	426,513	1.98	441,122	10.5-?	By-pass	8.26	114,931	5.03	292,706	NR	NR	NR	45,943	NR	NR	NR	NR
07.06.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.07.07	0630	2.18	348,958	2.03	384,715	2.05	431,531	1.98	446,123	13-?	11-13	8.28	128,856	5.07	301,813	0.00	10,787	0.00	45,944	0.00	36,692	NR	NR
07.08.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.09.07	1330	2.27	355,203	2.02	490,266	2.00	437,083	2.05	451,676	19-3	11-10	0.00	145,361	0.00	312,043	NR	NR	0.00	45,945	NR	NR	NR	NR
07.10.07	1200	2.36	357,182	1.96	491,972	1.96	438,787	2.00	453,385	20-2	10-10	8.46	150,759	5.19	315,363	NR	NR	0.00	45,946	NR	NR	NR	NR
07.11.07	1000	0/clog	359,102	0/clog	493,507	0/clog	440,270	0/clog	454,920	20-3	10-10	0.00	155,674	0.00	318,363	NR	NR	0.00	45,946	NR	NR	NR	NR
07.12.07	0755	2.45	360,919	2.02	494,962	0/clog	441,731	2.03	456,364	NR	NR	8.50	160,378	4.65	320,989	NR	NR	NR	NR	NR	NR	NR	NR
07.13.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.14.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.15.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.16.07	1230	2.42	374,857	1.75	505,692	NR	NR	1.93	466,960	18-4	10-10	8.65	195,550	4.57	335,590	NR	NR	0.00	45,947	NR	NR	NR	NR
07.17.07	1000	2.47	377,046	1.51	507,048	NR	443,820	0.00	467,283	21-2	10-10	8.68	200,942	4.53	338,136	NR	NR	NR	45,948	NR	NR	NR	NR
07.18.07	1515	0.00	377,421	1.24	508,336	NR	445,327	NR	467,283	21-2	10-8	8.55	206,689	4.52	341,122	NR	NR	0.00	45,948	NR	NR	NR	NR
07.19.07	NR	0/clog	377,421	1.43	509,127	NR	446,221	0/clog	467,283	0-0	8-7	8.50	210,703	4.41	343,194	NR	NR	0.00	45,948	NR	NR	NR	NR
07.20.07	1240	0/clog	377,421	1.40	511,039	NR	446,782	0/clog	467,283	5-5	34-14	8.38	219,453	4.27	347,566	NR	NR	0.00	45,956	NR	NR	NR	NR
07.21.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.22.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.23.07	1545	0/clog	385,612	0/clog	518,774	NR	NR	0/clog	475,914	0-0	52-15	3.69	237,250	3.56	364,844	NR	NR	0.81	48,878	NR	NR	NR	NR
07.24.07	1015	2.52	387,469	2.16	520,442	NR	456,274	2.42	471,761	0-0	54-15	3.50	241,155	3.40	368,519	NR	NR	0.74	49,047	NR	NR	NR	NR
07.25.07	1100	2.58	389,923	2.16	522,650	NR	457,819	2.44	480,220	0-0	55-15	3.38	246,188	3.28	373,371	NR	NR	0.54	49,059	NR	NR	NR	NR
07.26.07	1000	2.52	392,544	2.16	524,726	NR	459,256	2.49	482,614	19-4	55-14	3.31	250,728	3.17	377,597	NR	NR	0.47	49,059	NR	NR	NR	NR
07.27.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.28.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.29.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.30.07	1049	2.60	400,688	2.16	531,230	NR	463,918	2.49	490,383	21-2	51-14	3.71	266,796	3.51	392,030	NR	NR	0.29	49,061	NR	NR	NR	NR

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2007

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA									
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Galley G-1		Injection Galley G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
07.31.07	1200	2.38	404,155	2.10	533,930	NR	465,600	2.53	493,760	15-4	57-9	4.75	273,745	3.96	398,778	NR	NR	NR	NR	NR	NR	NR	NR
08.01.07	1050	2.47	406,980	2.14	536,190	NR	466,954	2.55	496,585	19-2	0-0	0.00	278,904	0.00	404,236	NR	NR	0.00	49,726	NR	NR	NR	NR
08.02.07	1100	2.43	409,694	2.14	538,360	NR	467,930	2.35	499,294	7-6	60-10	4.51	285,402	3.03	409,502	NR	NR	0.00	49,776	NR	NR	NR	NR
08.03.07	1449	2.55	412,435	2.12	540,490	NR	468,994	2.40	501,956	11-3	60-11	4.70	292,860	1.70	413,091	NR	NR	1.01	49,775	NR	NR	NR	NR
08.04.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.05.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.06.07	1300	0/clog	412,441	0/clog	540,494	NR	NR	0/clog	501,960	0-0	0-0	0.00	294,055	0.00	414,322	NR	NR	0.00	49,855	NR	NR	NR	NR
08.07.07	1130	0/clog	412,441	0/clog	540,494	NR	NR	0/clog	501,961	0-0	0-0	0.00	294,248	0.00	414,523	NR	NR	NR	NR	NR	NR	NR	NR
08.08.07	1300	2.74	415,978	2.10	543,310	NR	470,394	2.33	505,129	17-3	50-32	4.78	300,611	4.90	421,086	NR	NR	3.84	NR	NR	NR	NR	NR
08.09.07	1100	0/clog	417,760	2.09	545,444	NR	471,345	2.37	507,766	6-6	55-22	3.78	305,802	3.89	428,404	NR	NR	NR	NR	NR	NR	NR	NR
08.10.07	1513	Off	417,763	1.65	547,479	NR	472,505	2.25	510,736	8-5	60-10	3.12	311,473	2.36	432,212	NR	NR	NR	Nr	NR	NR	NR	NR
08.11.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.12.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.13.07	0945	2.74	427,926	2.10	554,862	NR	NR	2.37	519,064	17-3	0-0	0.00	321,444	0.00	452,934	NR	NR	NR	NR	NR	NR	NR	NR
08.14.07	1235	2.79	430,800	2.03	556,934	NR	NR	0/clog	520,364	20-4	0-0	0.00	321,444	0.00	458,487	NR	NR	NR	NR	NR	NR	NR	NR
08.15.07	1425	2.79	432,892	2.02	558,434	NR	NR	0/clog	520,364	**20-4**	0-0	0.00	322,719	0.00	462,579	NR	NR	NR	NR	NR	NR	NR	NR
08.16.07	1230	2.78	434,944	2.02	559,492	NR	NR	0/clog	520,364	0-0	0-0	0.00	326,044	0.00	466,902	NR	NR	NR	NR	NR	NR	NR	NR
08.17.07	1340	2.78	438,865	2.00	562,776	NR	473,701	2.26	520,361	16-4	48-45	5.59	331,617	5.41	474,019	0.90	10,813	NR	NR	NR	NR	NR	NR
08.18.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.19.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.20.07	1430	2.78	441,338	2.03	564,510	NR	477,280	2.42	522,469	22-2	51-45	5.71	337,084	5.47	479,246	0.72	11,441	NR	NR	0.00	36,712	NR	NR
08.21.07	1420	0/clog	441,926	0/clog	564,914	NR	NR	0/clog	523,001	22-2	52-45	5.71	338,524	5.45	480,623	0.63	11,587	NR	NR	0.00	36,713	NR	NR
08.22.07	1030	0/clog	442,453	0/clog	565,282	NR	NR	0/clog	523,481	22-2	0-0	0.00	339,858	0.00	481,859	0.00	11,664	NR	NR	0.00	36,714	NR	NR
08.23.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.24.07	1305	Off	Off	Off	Off	Off	Off	Off	Off	**21-3**	50-37	4.97	343,864	4.89	485,661	0.98	11,802	1.07	NR	1.90	36,725	NR	NR
08.25.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.26.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.27.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.28.07	0930	2.49	453,310	1.98	573,560	NR	492,530	2.65	533,810	22-2	0-0	0.00	359,898	0.00	501,775	0.00	14,041	0.00	1,080	0.00	37,895	NR	NR
08.29.07	1130	0/clog	454,354	0/clog	574,395	NR	NR	0/clog	534,928	**22-2**	0-0	0.00	362,106	0.00	504,007	0.00	14,355	0.00	1,083	0.00	37,899	NR	NR
08.30.07	1045	2.49	457,265	1.96	576,724	NR	497,077	2.86	538,418	4-3	45-15	5.76	367,562	5.83	509,519	0.84	15,124	0.00	1,085	0.29	37,907	NR	NR
08.31.07	1209	2.54	460,835	1.98	579,580	(2.22)	501,006	2.86	542,706	7-3	48-14	5.66	373,988	5.16	515,970	0.65	15,989	0.85	1,087	1.03	37,909	NR	NR
09.01.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09.02.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09.03.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09.04.07	1100	2.56	474,235	1.98	590,235	NR	514,032	2.97	558,686	16-2	0-0	0.00	396,231	0.00	536,432	0.00	16,986	0.00	6,498	0.00	39,158	NR	NR
09.05.07	1315	2.60	477,448	1.84	592,512	NR	516,601	3.06	562,341	19-2	52-10	5.25	401,269	4.93	540,985	0.00	16,988	1.28	7,671	0.00	39,159	NR	NR
09.06.07	1100	0/clog	479,092	0/clog	593,431	NR	NR	0/clog	564,164	**20-2**	0-0	0.00	404,191	0.00	543,811	0.00	19,989	0.00	8,305	0.00	39,161	NR	NR
09.07.07	1254	2.56	480,949	1.80	594,465	NR	520,089	3.07	566,219	3-4	51-10	5.21	407,336	4.86	546,445	1.29	17,006	1.21	8,967	1.08	39,218	NR	NR
09.08.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09.09.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09.10.07	1030	0/clog	489,200	0/clog	599,310	NR	NR	0/clog	575,907	21-2	58-13	5.13	420,182	5.74	560,924	0.43	17,974	0.82	11,161	0.28	39,313	NR	NR
09.11.07	1300	0/clog	490,500	0/clog	600,023	NR	NR	0/clog	577,333	22-2	0-0	0.00	422,198	0.00	563,144	0.00	18,108	0.00	11,474	0.00	39,338	NR	NR
09.12.07	1520	0/clog	491,599	0/clog	600,625	NR	NR	0/clog	578,528	22-2	0-0	0.00	424,008	0.00	565,140	0.00	18,272	0.00	11,756	0.00	39,420	NR	NR
09.13.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09.14.07	1151	0/clog	494,023	0/clog	602,223	NR	NR	0/clog	581,310	**22-2**	51-16	5.85	427,593	6.61	569,109	0.84	18,658	0.96	12,347	1.03	39,898	NR	NR
09.15.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09.16.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09.17.07	1330	2.61	501,316	1.93	607,112	NR	537,753	0/clog	588,611	22-2	NR	0.00	438,527	0.00	582,342	0.00	19,572	0.00	13,868	0.00	40,816	NR	NR

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2007

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA									
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Gallery G-1		Injection Gallery G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
09 18 07	1400	0/clog	502,408	0/clog	607,906	NR	NR	0/clog	588,811	22-2	0-0	0.00	440,349	0.00	584,515	0.00	19,731	0.00	14,129	0.00	40,690	NR	NR
09 19 07	1545	2.54	503,351	1.89	608,646	NR	539,497	0/clog	588,811	22-2	0-0	0.00	441,959	0.00	586,427	0.00	19,853	0.00	14,336	0.00	40,932	NR	NR
09 20 07	1320	2.47	506,425	1.89	611,057	NR	541,970	1.91	588,811	10-4	55-15	5.30	446,977	6.41	592,411	0.54	20,240	0.21	14,920	0.29	41,194	NR	NR
09 21 07	1032	2.42	509,406	1.89	613,395	NR	544,354	1.02	589,991	12-3	58-14	5.13	451,250	6.17	597,549	0.36	20,484	0.14	14,127	0.11	41,212	NR	NR
09 22 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 23 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 24 07	1100	2.22	517,013	1.91	619,708	NR	551,082	2.16	596,315	20-2	0-0	0.00	461,625	NR	NR	0.00	21,580	0.00	18,247	0.00	42,963	NR	NR
09 25 07	1220	2.22	518,808	1.91	621,303	NR	552,806	2.17	597,909	19-2	54-11	3.92	464,124	NR	613,382	1.00	22,082	1.83	19,036	3.03	43,672	NR	NR
09 26 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 27 07	0945	2.52	522,457	1.98	624,246	NR	556,220	2.07	600,872	20-2	0-0	0.00	468,175	NR	NR	0.00	23,331	0.00	20,382	0.00	44,948	NR	NR
09 28 07	1323	2.54	524,570	1.98	625,954	1.90	558,213	2.10	602,562	20-2	52-14	4.70	470,908	NR	622,848	0.95	23,884	1.23	21,213	0.68	45,773	NR	NR
09 29 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 30 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 01 07	1245	0/clog	530,778	0/clog	630,432	NR	NR	0/clog	607,527	22-2	0-0	0.00	480,115	NR	NR	0.00	26,926	0.00	23,045	0.00	46,931	NR	NR
10 02 07	1100	2.50	531,538	1.56	630,888	NR	563,892	1.94	608,142	4-3	55-12	4.89	1,412 max	NR	633,651	2.23	27,495	1.30	23,321	0.00	46,932	NR	NR
10 03 07	1437	2.56	535,419	1.54	633,217	NR	566,998	1.89	611,242	5-3	55-12	5.32	4,990	5.00	639,325	0.43	27,787	1.12	24,448	0.00	49,268	NR	NR
10 04 07	1350	2.58	538,674	1.56	635,770	NR	569,801	1.86	613,340	0-0	60-13	5.06	10,592	NR	644,380	0.04	28,082	0.87	25,413	0.00	49,333	NR	NR
10 05 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 06 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 07 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 08 07	1500	2.58	549,314	1.54	641,522	NR	578,069	2.05	621,514	20-2	0-0	0.00	19,012	NR	NR	0.00	29,965	0.00	26,136	0.00	49,370	NR	NR
10 09 07	1315	0/clog	550,638	0/clog	642,315	NR	NR	0/clog	622,749	22-2	60-14	5.23	?	4.86	663,244	0.00	29,965	0.00	26,136	0.00	49,370	NR	NR
10 10 07	1350	2.61	551,921	1.54	643,085	2.40	580,416	2.46	624,034	0-0	60-11	4.70	?	5.00	665,926	0.65	29,966	0.00	26,136	0.00	49,370	NR	NR
10 11 07	0900	2.61	554,396	1.54	644,567	NR	582,586	2.40	626,502	5-3	60-15	4.85	?	3.02	669,666	0.00	29,996	0.00	26,439	0.00	49,384	NR	NR
10 12 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 13 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 14 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 15 07	1100	2.13	560,784	1.59	648,821	NR	588,513	2.48	633,603	0-0	60-20	NR	NR	NR	NR	0.00	30,363	0.00	27,010	0.00	49,456	NR	NR
10 16 07	1315	2.16	561,906	1.59	649,669	NR	588,980	2.46	635,006	14-2	60-20	NR	NR	NR	NR	0.00	30,363	0.00	27,061	0.00	49,456	NR	NR
10 17 07	1030	0/clog	562,663	0/clog	650,187	NR	NR	0/clog	635,870	0-0	60-20	NR	NR	NR	NR	0.00	30,363	0.00	27,090	0.00	49,456	NR	NR
10 18 07	1130	0/clog	563,862	0/clog	650,905	NR	NR	0/clog	636,908	0-0	60-19	NR	NR	NR	NR	0.00	30,363	0.00	27,168	0.00	49,456	NR	NR
10 19 07	1230	2.04	564,899	1.56	651,631	2.50	14.25 max	2.21	637,989	18-2	44-39	6.22	?	NR	NR	1.73	30,411	0.98	27,315	1.21	49,510	NR	NR
10 20 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 21 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 22 07	1230	0/clog	567,790	2.03	659,539	2.09	965	2.33	646,046	0-0	63-30	5.42	17,189	5.81	686,032	0.57	31,737	0.00	27,549	0.00	49,891	NR	NR
10 23 07	1530	0/clog	567,790	2.05	662,162	1.95	3,782	2.49	649,115	16-2	60-20	4.02	24,129	NR	695,581	0.00	32,000	0.00	27,549	0.00	49,891	NR	NR
10 24 07	1015	0/clog	567,790	2.12	663,396	2.09	5,093	2.46	650,642	20-2	60-25	4.84	27,701	NR	699,432	0.00	32,001	0.00	27,549	0.50	49,892	NR	NR
10 25 07	1145	0/clog	567,790	0/clog	664,441	0/clog	6,109	0/clog	651,948	21-3	0-0	0.00	30,650	NR	NR	NR	NR	NR	27,557	NR	NR	NR	NR
10 26 07	1020	2.16	567,796	2.12	665,577	3.02	7,214	NR	NR	24-2	60-26	4.70	32,468	NR	704,629	0.00	32,002	0.00	27,558	0.46	50,085	NR	NR
10 27 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 28 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 29 07	1414	2.23	575,783	2.12	673,564	3.28	14,573	NR	NR	12-3	56-16	5.80	48,451	NR	718,328	0.50	32,837	1.17	31,769	0.00	50,346	NR	NR
10 30 07	1500	2.34	576,661	2.12	676,365	0/clog	15,455	Off	Off	17-2	54-15	5.78	54,111	NR	721,925	1.38	33,456	1.21	32,878	1.88	50,933	NR	NR
10 31 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11 01 07	1215	0/clog	581,684	0/clog	679,319	0/clog	20,141	Off	Off	20-2	60-39	0.00	57,522	NR	724,869	0.00	34,225	2.94	35,718	4.16	54,707	NR	NR
11 02 07	1252	2.22	582,798	2.12	680,431	4.82	22,394	Off	Off	20-2	60-51	0.80	57,721	NR	725,842	Off	NR	3.25	37,256	5.19	56,911	NR	NR
11 03 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11 04 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11 05 07	1230	2.47	591,142	2.09	688,013	4.05	35,742	NR	NR	18-2	60-45	5.76	77,385	NR	731,510	0.00	34,225	0.21	38,394	0.00	58,052	NR	NR

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2007

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4				Injection Galley G-1		Injection Galley G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Bag Filter	Carbon	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
11.06.07	1530	0/clog	593,706	0/clog	689,583	0/clog	38,885	NR	NR	20-2	60-52	7.20	81,812	NR	NR	0.00	34,225	0.00	38,463	1.61	58,739	NR	NR
11.07.07	1510	0/clog	594,935	0/clog	690,567	0/clog	40,986	NR	NR	22-2	60-50	7.11	84,836	NR	733,540	0.00	34,225	0.00	38,462	0.50	59,201	NR	NR
11.08.07	0930	0/clog	595,703	0/clog	691,182	0/clog	42,337	NR	NR	22-2	0-0	0.00	87,463	NR	NR	0.00	34,225	0.00	38,463	0.00	59,275	NR	NR
11.09.07	1330	0/clog	596,734	0/clog	692,006	0/clog	44,159	NR	NR	22-2	60-50	0.00	88,674	NR	NR	0.00	34,225	0.00	38,463	0.00	59,276	NR	NR
11.10.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.11.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.12.07	1400	2.60	599,225	2.10	694,000	2.63	48,623	NR	NR	5-5	60-50	0.00	88,674	NR	NR	0.00	34,225	0.00	38,463	0.00	59,280	NR	NR
11.13.07	1030	2.65	601,862	2.10	696,109	3.80	52,397	NR	NR	0-0	54-22	0.00	88,674	NR	NR	0.88	34,371	0.00	37,478	0.33	59,316	NR	NR
11.14.07	1430	2.67	605,806	2.09	699,265	3.28	57,898	NR	NR	12-4	59-29	1.80	88,703	NR	NR	1.00	34,519	1.21	38,468	1.95	59,385	NR	NR
11.15.07	1020	0/clog	608,526	0/clog	701,442	0/clog	61,711	NR	NR	18-2	0-0	0.00	93,690	NR	NR	0.00	34,767	0.00	39,327	0.00	60,472	NR	NR
11.16.07	1111	2.51	610,319	2.14	702,886	4.30	64,659	NR	NR	25-3	55-23	6.53	98,322	2.25	733,901	1.13	34,911	2.24	40,049	1.85	61,460	NR	NR
11.17.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.18.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.19.07	1415	2.31	619,572	2.23	110,962	2.89	78,400	NR	NR	10-6	0-0	0.00	111,851	0.00	3,223[new]	0.00	35,183	0.00	40,110	0.00	63,308	NR	NR
11.20.07	1220	2.27	622,069	2.21	713,459	2.89	82,262	NR	NR	0-0	55-25	7.00	117,402	Off	NR	1.45	35,782	1.02	40,400	0.00	65,204	NR	NR
11.21.07	1240	2.36	625,258	2.21	716,189	2.76	86,372	NR	NR	14-4	60-30	0.00	120,192	Off	NR	0.47	36,494	0.00	40,767	0.00	65,204	NR	NR
11.22.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.23.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.24.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.25.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.26.07	1058	2.51	634,204	2.09	724,273	3.15	98,201	Off	NR	22-2	46-32	7.20	121,302	Off	NR	0.95	38,276	1.23	41,199	2.45	65,355	NR	NR
11.27.07	1250	2.49	637,739	2.05	727,098	2.63	102,458	Off	NR	0-0	60-60	0.00	121,446	Off	NR	0.91	38,830	0.00	41,379	0.00	65,437	NR	NR
11.28.07	1410	2.38	641,297	2.05	729,948	2.63	106,604	Off	NR	0-0	60-60	0.00	121,446	Off	NR	0.86	39,192	0.00	41,378	0.00	65,436	NR	NR
11.29.07	1020	2.11	643,595	2.05	732,223	2.63	109,856	Off	NR	16-4	By-pass	7.35	121,446	Off	NR	1.40	39,336	1.41	NR	NR	65,436	NR	NR
11.30.07	1200	1.96	646,281	2.09	734,908	2.89	113,710	Off	NR	20-3	0-0	0.00	123,893	Off	NR	0.00	39,399	0.00	41,500	0.00	65,479	NR	NR
12.01.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.02.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.03.07	1445	2.02	650,649	2.09	739,276	2.89	120,639	NR	NR	21-2	NR	0.00	129,906	Off	NR	0.00	39,399	0.00	41,633	NR	NR	NR	NR
12.04.07	1123	2.02	652,762	2.01	741,389	2.89	123,902	NR	NR	7-7	By-pass	6.07	129,906	Off	3,327	0.00	39,404	1.48	41,637	1.36	65,486	NR	NR
12.05.07	1400	1.98	665,605	2.02	744,232	2.89	128,325	NR	NR	10-7	NR	0.00	135,371	Off	NR	0.81	40,038	0.00	41,937	1.10	65,584	NR	NR
12.06.07	1200	1.94	656,119	2.03	746,746	2.89	132,197	NR	NR	0-0	32-?	0.00	135,371	Off	NR	0.57	40,142	0.00	41,937	1.17	65,588	NR	NR
12.07.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.08.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.09.07	1700	2.22	666,841	2.02	755,468	2.63	145,261	NR	NR	18-3	42-?	0.00	419,373	Off	NR	0.00	40,244	0.00	41,937	0.00	65,589	NR	NR
12.10.07	1230	2.40	668,537	1.58	756,999	2.76	147,664	NR	NR	22-2	45-?	0.00	135,371	Off	NR	0.00	40,244	0.00	41,937	0.00	65,590	NR	NR
12.11.07	1400	2.34	670,063	1.63	757,884	3.79	149,554	NR	NR	0-0	44-0	6.82	135,430	Off	NR	1.20	40,265	2.15	41,955	1.87	65,608	NR	NR
12.12.07	1303	2.36	673,086	1.58	759,817	2.49	153,161	NR	NR	10-8	42-?	6.74	136,514	Off	NR	0.91	40,496	1.91	42,443	1.83	65,618	NR	NR
12.13.07	0930	2.40	675,919	1.56	761,511	2.09	155,978	NR	NR	0-0	55-0	0.00	137,516	Off	NR	0.00	40,503	0.00	42,705	0.00	65,665	NR	NR
12.14.07	1145	2.38	679,609	1.56	763,731	1.25	158,465	NR	NR	13-2	55-?	0.00	137,516	Off	NR	0.00	40,503	0.00	42,705	0.00	65,665	NR	NR
12.15.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.16.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.17.07	1450	0.00	687,433	0.00	768,441	0.00	161,311	NR	NR	22-2	0-0	0.00	137,516	Off	NR	0.00	40,503	0.00	42,706	0.00	65,665	NR	NR
12.18.07	1330	2.61	688,555	1.63	773,000	2.22	161,691	NR	NR	22-2	0-0	0.00	137,516	Off	NR	0.00	40,502	0.00	42,705	0.00	65,665	NR	NR
12.19.07	1300	0.00	688,933	0.00	NR	0.00	161,809	NR	NR	23-2	0-0	0.00	137,516	Off	NR	0.00	40,503	0.00	42,706	0.00	65,665	NR	NR
12.20.07	1119	2.51	691,119	2.10	NR	2.35	161,809	1.87	NR	5-3	NR	0.00	137,516	Off	NR	0.00	40,503	1.65	42,740	1.72	65,709	NR	NR
12.21.07	1320	2.60	694,622	2.09	5,074[new]	1.70	162,017	0.00	NR	10-3	60-0	0.00	138,483	Off	NR	0.00	65,956	0.00	40,531	0.00	43,034	NR	NR
12.22.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Off	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.23.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Off	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.24.07	1120	0.00	698,579	0.00	8,492	0.00	163,435	0.00	NR	0-0	65-0	0.00	138,483	Off	NR	0.00	40,531	0.00	43,034	0.00	65,956	NR	NR

TABLE 2 (continued): GROUNDWATER TREATMENT SYSTEM – ONSITE WAREHOUSE AREA – OPERATION AND MAINTENANCE LOG - 2007

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 1		RECOVERY WELL RW – 2		RECOVERY WELL RW – 3		RECOVERY WELL RW – 4		Bag Filter	Carbon	Injection Galley G-1		Injection Galley G-2		Injection Well IW-1		Injection Well IW-2		Injection Well IW-3		Injection Well IW-4	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)
12.25.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.26.07	1400	0.00	699,207	0.00	9,251	0.00	163,435	0.00	9,251 [sic]	2-2	65-0	0.00	138,483	Off	NR	0.00	40,531	0.00	43,035	0.00	65,956	NR	NR
12.27.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.28.07	1300	1.89	699,899	2.14	729?	0.00	163,435	4.19	2,944	8-2	0-0	0.00	138,483	Off	NR	0.00	40,531	0.00	43,035	0.00	65,956	NR	NR
12.29.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.30.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.31.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 3: GROUNDWATER TREATMENT SYSTEM – OFFSITE GARAGE AND ABANDONED FIELD ROAD AREA – OPERATION AND MAINTENANCE LOG

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW-5S		RECOVERY WELL RW-5D		RECOVERY WELL RW-6		RECOVERY WELL RW-7		Bag Filter Pressure	Carbon Pressure	Injection Trench (=IW-6)		Injection Well IW-5		Recovery Well/ Injection Well RW-7/IW-7		TOTAL SYSTEM INFLOW		TOTAL SYSTEM OUTFLOW		COGEN	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow			Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(psi)	(psi)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gph)	(gal)
10 17 06	0820	Off	0	1 01	82	Off	0	2 55	2,886	5-4	28-26	9 14	2,929	Off	0	Off	0	-	2,968	-	2,929	Off	0
10 18 06	0810			1 00	1,493			2.48	6,443	5-4	28-26	9 14	7,907						7,936		7,907		
10 19 06	0820			1 02	2,957			2.46	9,985	5-4	28-27	9 48	12,856						12,942		12,856		
10 20 06	0750			1 00	4,355			2.48	13,539	5-4	28-27	9 42	17,781						17,894		17,781		
10 23 06	1430			0 98	8,895			2.50	25,098	5-4	28-27	9 46	34,223						33,993		34,223		
10 24 06	1230			0 92	9,331			2.46	26,193	5-4	29-28	9 52	35,729						35,524		35,729		
10 25 06	1530			0 98	9,919			2.51	27,084	5-4	29-28	9 50	37,152						37,003		37,152		
10 26 06	0910			0 98	10,008			2.48	27,270	5-4	29-28	9 56	37,432						37,278		37,432		
10 27 06	1500			0 94	11,554			2 31	31,239	5-4	29-28	9 56	43,055						42,793		43,055		
10 30 06	0750			1 00	15,441			2.29	38,922	5-4	29-28	9 54	55,080						54,363		55,080		
10 31 06	0710			1 01	16,836			2 34	42,052	5-4	29-28	9 52	59,174						58,688		59,174		
11 01 06	1625	Off	0	1 01	18,830	Off	0	2.36	46,518	5-4	29-28	9 48	65,391	Off	0	Off	0	-	65,348	-	65,391	Off	0
11 02 06	1510			1 00	20,195			2 38	49,545	5-4	29-28	9 50	69,456						69,740		69,456		
11 03 06	1625			1 00	21,704			2.40	52,913	6-5	29-28	9 72	73,594						74,617		73,594		
11 06 06	0815			1.01	25,538			2 52	61,727	7-5	29-28	9 56	85,404						87,265		85,404		
11 07 06	1040			1 00	27,123			2.78	65,680	8-5	29-28	9 62	90,376						92,803		90,376		
11 08 06	1555			1 01	28,879			2.71	70,594	8-5	29-28	9 70	95,351						99,473		95,351		
11 09 06	1610			1 00	30,338			2 87	74,563	8-5	29-28	9 64	99,561						104,901		99,561		
11 13 06	0800			0.87	35,435			2.34	86,494	9-5	29-28	9 66	116,098						121,929		116,098		
11 14 06	1600			0.84	37,053			2 36	90,948	9-5	30-28	9 66	121,720						128,001		121,720		
11 16 06	1610			1 16	40,472			2.34	98,453	9-5	30-28	9 77	130,940						136,925		130,940		
11 17 06	1425			1 14	42,018			2.36	99,008	9-5	30-27	9 67	136,015						141,026		136,015		
11 20 06	1115			1.13	46,726			2 38	106,662	9-4	30-27	9 56	150,564						153,588		150,546		
11 21 06	1600			1.14	48,678			2.27	110,099	10-4	30-26	9 58	156,905						158,777		156,905		
11 27 06	0830			1 15	58,277			2.26	125,251	12-4	30-26	9 57	185,847						183,528		185,847		
11 28 06	1625			1 15	60,219			2 34	128,780	12-4	30-26	9 56	192,702						188,999		192,702		
12 01 06	1415	Off	0	1 15	65,032	Off	0	2 26	136,599	15-4	30-26	9 52	207,466	Off	0	Off	0	-	201,631	-	207,466		
12 04 06	1000			1 14	69,697			2 26	144,224	19-4	30-24	9 50	221,965						213,921		221,965	Off	0
12 05 06	1545			1 10	71,676			2.20	147,568	19-4	30-24	9 45	228,390						219,248		228,390	4	4
12 06 06	1555			1 09	73,240			2.20	150,275	20-4	30-24	9 27	233,553						223,615		233,553	4	100
12 07 06	0845			1 07	74,324			2.24	152,171	20-4	30-24	9 29	237,060						226,662		237,060	4	167
12 08 06	0930			0.65	75,627			2.20	154,948	21-5x	31-23	9 25	242,442						231,235		242,442	20	662
12 11 06	1320			0 96	79,683			2 19	163,445	4-5	32-24	9 30	258,506						245,008		258,506	16	1,878
12 12 06	0830			0 99	80,973			2.15	165,596	4-5	32-23	9 20	262,932						248,751		262,932	16	2,182
12 13 06	1320			0 98	82,646			2.20	168,832	6-5	32-24	9 25	268,996						254,124		268,996	16	2,646
12 14 00	1515			0.96	84,150			2 19	172,030	7-5	32-24	9 17	274,654						259,242		274,654	16	3,062
12 15 06	1520			0 97	85,541			2.17	175,039	8-5	32-24	9 22	280,082						264,026		280,082	16	3,446
12 18 06	1030			0 97	89,406			2.22	182,203	9-5	32-24	9 25	294,249						276,127		294,249	16	4,518
12 19 06	1430			0 96	91,006			2.22	185,738	15-5	33-23	9 19	300,456						281,710		300,456	16	4,966
12 21 06	1545			0 96	93,838			2.24	191,313	17-5x	33-23	9 21	310,956						290,517		310,956	16	5,366
12 22 06	0830			0.96	94,807			2.20	193,451	4-5	32-22	9 10	312,033						293,896		312,033	16	5,638
12 26 06	0835			0 97	100,364			2.27	204,663	5-5	33-23	9 12	332,622						312,201		332,622	16	7,174
12 27 06	1415			0 97	102,081			2.22	207,742	6-5	31-21	8 73	338,967						317,285		338,967	16	7,462
12 29 06	0940	Off	0	0 98	104,604	Off	0	2.20	213,224	6-5	31-21	9 08	347,857	Off	0	Off	0	-	325,978	-	347,857	16	8,150

TABLE 3 (continued): GROUNDWATER TREATMENT SYSTEM – OFFSITE GARAGE AND ABANDONED FIELD ROAD AREA – OPERATION AND MAINTENANCE LOG

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW -5S		RECOVERY WELL RW – 5D		RECOVERY WELL RW – 6		RECOVERY WELL RW – 7		Bag Filter Pressure	Carbon Pressure	Injection Trench (= IW-6)		Injection Well IW-5		Recovery Well/ Injection Well RW-7/IW-7		TOTAL SYSTEM INFLOW		TOTAL SYSTEM OUTFLOW		COGEN	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow			Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(psi)	(psi)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gph)	(gal)
01 01 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 02 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 03 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 04 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 05 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 06 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 07 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 08 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 09 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 10 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 11 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 12 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 13 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 14 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 15 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 16 07	1630	Off	0	1 01	119 013	Off	0	0.00	193,973	1 5-1 5-1 5-1 5	0-0	0	5,700	Off	0	Off	0	NR	312,986	NR	5,700	NR	NR
01 17 07	1100	Off	0	1 02	120,127	Off	0	0 00	193,973	8-5-5-6	0-0	0	3,684	Off	0	Off	0	NR	314,100	NR	3,684	NR	NR
01 18 07	1100	Off	0	1 02	121,605	Off	0	2 13	193,981	11/5 5	32-21	8.8	4,542	Off	0	Off	0	NR	315,585	NR	4,542	NR	NR
01 19 07	1540	Off	0	1.02	123,359	Off	0	1 90	196,831	Off	32-32	9 73	5,665	Off	0	Off	0	NR	320,190	NR	5,665	NR	NR
01 20 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 21 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 22 07	1115	Off	0	1.03	127,500	Off	0	1 89	204,409	4	32-21	8.7	19,189	Off	0	Off	0	NR	331,909	NR	19,169	NR	NR
01 23 07	1315	Off	0	1 03	129,143	Off	0	1 90	207,409	6	0-0			Off	0	Off	0	NR	336,552	NR		NR	NR
01 24 07	1400	Off	0	1 03	130,634	Off	0	1 92	210,126	7-9	0-0	0	9473	Off	0	Off	0	NR	340,760	NR	9473	NR	NR
01 25 07	1500	Off	0	1 03	132,168	Off	0	1 90	272,921	10	32-21	8 7	4 978	Off	0	Off	0	NR	405,089	NR	4,978	NR	NR
01 26 07	1256	Off	0	1 05	133,527	Off	0	1.85	215,292	12-11-12-14	NR	Off	4,005	Off	0	Off	0	NR	348,819	NR	4,005	NR	NR
01 27 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 28 07	NR	c	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
01 29 07	NR	Off	0	1 04	137 969	Off	0	2 06	223,271	20	0-0	0	13 358	Off	0	Off	0	NR	361,260	NR	13,358	NR	NR
01 30 07	1300	Off	0	1 03	139,436	Off	0	0.00	225,279	0-0	0-0	0	4,701	Off	0	Off	0	NR	364,715	NR	4,701	NR	NR
01 31 07	1215	Off	0	1 04	140 909	Off	0	0.00	225,579	0-0	33-21	8.8	3,808	Off	0	Off	0	NR	366,488	NR	3,808	NR	NR
02 01 07	1110	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 02 07	1230	Off	0	0 58	142,451	Off	0	2 26	226,001	0-0	0-0	0	3,760	Off	0	Off	0	NR	368,452	NR	3,760	NR	NR
02 03 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 04 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 05 07	1245	Off	0	0 53	144 775	Off	0	0 00	229,230	2-2	0-0	0 00	17,506	Off	0	Off	0	NR	374,005	NR	17,506	NR	NR
02 06 07	1438	Off	0	0 54	145,595	Off	0	0.00	229,230	0-0	0-0	0 00	4,692	Off	0	Off	0	NR	374,825	NR	4,692	NR	NR
02 07 07	1200	Off	0	0 54	146,283	Off	0	NR	146,283	0-0	0-0	NR	NR	Off	0	Off	0	NR	292,566	NR	NR	NR	NR
02 08 07	1100	Off	0	0 52	147,040	Off	0	NR	229,277	7-7	24-9	NR	17,506	Off	0	Off	0	NR	376,317	NR	17,506	NR	NR
02 09 07	1400	Off	0	1 02	148,670	Off	0	0 00	229,575	2-2	32-21	8 78	5,915	Off	0	Off	0	NR	378,245	NR	5,915	NR	NR
02 10 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 11 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 12 07	1330	Off	0	1 05	153,106	Off	0	0.00	229,575	2-2	0-0	0 00	21,417	Off	0	Off	0	NR	382,681	NR	21,417	NR	NR
02 13 07	1445	Off	0	1 05	154 696	Off	0	0.00	229,572	4-1	Off	Off	*21,417*	Off	0	Off	0	NR	384,268	NR	*21,417*	NR	NR
02 14 07	0900	Off	0	0.99	155 754	Off	0	2 06	231,716	4-2	0-0	0 00	*21,417*	Off	0	Off	0	NR	387,470	NR	*21,417*	NR	NR
02 15 07	1215	Off	0	1 02	157,450	Off	0	2 22	235,056	7-2	0-0	0.00	*21,417*	Off	0	Off	0	NR	392,506	NR	*21,417*	NR	NR
02 16 07	1030	Off	0	1 03	158,799	Off	0	2 01	237,346	5-2	20-8 5	9 94	21,444	Off	0	Off	0	NR	398,145	NR	21,444	NR	NR
02 17 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 18 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 3 (continued): GROUNDWATER TREATMENT SYSTEM – OFFSITE GARAGE AND ABANDONED FIELD ROAD AREA – OPERATION AND MAINTENANCE LOG

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA									
		RECOVERY WELL RW-5S		RECOVERY WELL RW-5D		RECOVERY WELL RW-6		RECOVERY WELL RW-7		Bag Filter Pressure	Carbon Pressure	Injection Trench (=IW-6)		Injection Well IW-5		Recovery Well/ Injection Well RW-7/IW-7		TOTAL SYSTEM INFLOW		TOTAL SYSTEM OUTFLOW		COGEN	
Date	Time	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	(psi)	(psi)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gph)	Total Flow (gal)
02 19 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 20 07	1300	Off	0	1 24	166,258	Off	0	0 00	238,446	0-0	0-0	0 00	42,308	Off	0	Off	0	NR	404,704	NR	42,308	NR	NR
02 21 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 22 07	1245	Off	0	1 39	169,883	Off	0	0 00	238,446	0-2	28-11	10.06	52,214	Off	0	Off	0	NR	408,329	NR	52,214	NR	NR
02 23 07	NR	Off	0	1 26	171,722	Off	0	1 78	238,494	26-4x	28-11.5	9 99	57,443	Off	0	Off	0	NR	410,216	NR	57,443	NR	NR
02 24 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 25 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
02 26 07	1300	Off	0	1 25	177,163	Off	0	0 00	243,377	0-0	28-12	9 87	72,556	Off	0	Off	0	NR	420,540	NR	72,556	NR	NR
02 27 07	1445	Off	0	1 23	179,353	Off	0	0 00	243 377	8-6	0-0	0 00	77,708	Off	0	Off	0	NR	422,430	NR	77,708	NR	NR
02 28 07	1135	Off	0	1 27	NR	Off	0	NR	NR	NR	NR	NR	82 341	Off	0	Off	0	NR	NR	NR	82,341	NR	NR
03 01 07	1252	Off	0	1 11	182,450	Off	0	1 18	245,001	8-6	29-12	10 54	86,283	Off	0	Off	0	NR	427,451	NR	86,283	NR	NR
03 02 07	1400	Off	0	1 20	184,239	Off	0	1 14	246,590	0-0	29-12	9 62	90,524	Off	0	Off	0	NR	430,629	NR	90,524	NR	NR
03 03 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 04 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 05 07	1420	Off	0	1 24	189,665	Off	0	1 28	251,638	0-0	0-0	0 00	101,173	Off	0	Off	0	NR	441,303	NR	101,173	NR	NR
03 06 07	1415	Off	0	1 25	191 448	Off	0	1 03	253,220	2-2	0-0	0 00	104,405	Off	0	Off	0	NR	444,668	NR	104,405	NR	NR
03 07 07	1400	Off	0	1 24	193,209	Off	0	1 03	254,557	2-2	0-0	0 00	107,172	Off	0	Off	0	NR	447,766	NR	107,172	NR	NR
03 08 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 09 07	1127	Off	0	1 21	196,605	Off	0	1 03	257,132	0-0	0-0	0 00	112,7	Off	0	Off	0	NR	453,737	NR	112,700	NR	NR
03 10 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 11 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 12 07	1445	Off	0	1 25	202,120	Off	0	0 80	260,111	0-2	29-12	9 44	121,089	Off	0	Off	0	NR	462,231	NR	121,089	NR	NR
03 13 07	1435	Off	0	1 23	203 893	Off	0	0 89	261,255	0-2	29-12	9 30	123,715	Off	0	Off	0	NR	465,148	NR	123,715	NR	NR
03 14 07	1530	Off	0	1 24	205 722	Off	0	0 87	262,420	0-2	NR	0 00	126,318	Off	0	Off	0	NR	468,142	NR	126,318	NR	NR
03 15 07	1045	Off	0	1 25	207,171	Off	0	0 87	263,541	2-2	29-12	9 30	128,180	Off	0	Off	0	NR	470 712	NR	128,180	NR	NR
03 16 07	1045	Off	0	1 24	208,965	Off	0	0 87	264,262	0-2	30-12	9 25	130 715	Off	0	Off	0	NR	473,227	NR	130,715	NR	NR
03 17 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 18 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 19 07	1145	Off	0	1 23	214,382	Off	0	0 61	266,676	2-2	0-0	0 00	139 429	Off	0	Off	0	NR	481 058	NR	139,429	NR	NR
03 20 07	1400	Off	0	1 24	216,336	Off	0	0 57	267,417	0-2	30-11	9 14	142,613	Off	0	Off	0	NR	483,753	NR	142,613	NR	NR
03 21 07	1554	Off	0	1 24	218,250	Off	0	2 12	268,143	NR	NR	NR	145,817	Off	0	Off	0	NR	486,393	NR	145,817	NR	NR
03 22 07	1315	Off	0	1 24	219,829	Off	0	1 53	269,930	2-2	0-0	0 00	148,980	Off	0	Off	0	NR	489,759	NR	148,980	NR	NR
03 23 07	1230	Off	0	1 39	221,562	Off	0	1 37	271,875	0-2	0-0	0 00	152,588	Off	0	Off	0	NR	293,427	NR	152,588	NR	NR
03 24 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 25 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
03 26 07	1300	Off	0	1 25	226,907	Off	0	1 27	277,241	2-2	NR	0 00	163,332	Off	0	Off	0	NR	504,148	NR	163,332	NR	NR
03 27 07	1400	Off	0	1 24	228,770	Off	0	1 16	278,850	2-2	NR	0 00	166,909	Off	0	Off	0	NR	507,620	NR	166,909	NR	NR
03 28 07	1100	Off	0	1 21	230,311	Off	0	1 41	280,416	0-2	NR	0 00	170,050	Off	0	Off	0	NR	510,727	NR	170,050	NR	NR
03 29 07	1500	Off	0	1 22	232,368	Off	0	1 60	282,758	2-2	0-0	0 00	174,094	Off	0	Off	0	NR	515,126	NR	174,094	NR	NR
03 30 07	0910	Off	0	1 23	233,712	Off	0	1 66	284 316	15-6	NR	NR	176,798	Off	0	Off	0	NR	518,028	NR	176,798	NR	NR
03 31 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04 01 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04 02 07	1410	Off	0	1 21	239 341	Off	0	1 58	291,957	15-6x	0-0	0 00	187,585	Off	0	Off	0	NR	531,298	NR	187,585	NR	NR
04 03 07	1100	Off	0	1 23	240 866	Off	0	1 58	293,719	0-2	32-11	8 26	190,491	Off	0	Off	0	NR	534,585	NR	190,491	NR	NR
04 04 07	1510	Off	0	1 21	242,923	Off	0	1 57	296,094	2-2	0-0	0 00	194,237	Off	0	Off	0	NR	539,017	NR	194,237	NR	NR
04 05 07	1400	Off	0	1 58	298,030	Off	0	1 23	244,605	2-2	0-0	0 00	197,346	Off	0	Off	0	NR	542,635	NR	197,346	NR	NR
04 06 07	NR	Off	0	1 22	246,263	Off	0	1 53	299 939	NR	33-11	8 06	200,225	Off	0	Off	0	NR	546,202	NR	200,225	NR	NR
04 07 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04 08 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 3 (continued): GROUNDWATER TREATMENT SYSTEM – OFFSITE GARAGE AND ABANDONED FIELD ROAD AREA – OPERATION AND MAINTENANCE LOG

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW-5S		RECOVERY WELL RW-5D		RECOVERY WELL RW-6		RECOVERY WELL RW-7		Bag Filter Pressure	Carbon Pressure	Injection Trench (=IW-6)		Injection Well IW-5		Recovery Well/ Injection Well RW-7/IW-7		TOTAL SYSTEM INFLOW		TOTAL SYSTEM OUTFLOW		COGEN	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow			Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(psi)	(psi)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gph)	(gal)
04.09.07	1230	Off	0	1.08	250,866	Off	0	1.39	305,937	0-0	33-11	7.60	209,787	Off	0	Off	0	NR	556,803	NR	209,787	NR	NR
04.10.07	1000	Off	0	1.07	252,254	Off	0	1.41	307,741	0-0	0-0	0.00	212,503	Off	0	Off	0	NR	559,995	NR	212,503	NR	NR
04.11.07	1245	Off	0	1.07	253,960	Off	0	1.41	309,840	2-2	34-12	7.46	215,907	Off	0	Off	0	NR	563,800	NR	215,907	NR	NR
04.12.07	1245	Off	0	1.06	255,504	Off	0	1.41	311,597	2-2	35-12	7.50	218,888	Off	0	Off	0	NR	567,101	NR	218,888	NR	NR
04.13.07	1309	Off	0	1.01	257,082	Off	0	1.41	313,481	NR	35-12	7.36	222,105	Off	0	Off	0	NR	570,563	NR	222,105	NR	NR
04.14.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.15.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.16.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.17.07	1415	Off	0	1.09	263,374	Off	0	1.41	320,452	2-2	35-12	6.95	234,489	Off	0	Off	0	NR	583,826	NR	234,489	NR	NR
04.18.07	1045	Off	0	1.07	264,700	Off	0	1.39	321,901	16-6	NR	0.00	237,011	Off	0	Off	0	NR	586,601	NR	237,011	NR	NR
04.19.07	1045	Off	0	1.08	266,263	Off	0	1.39	323,597	16-6	0-0	0.00	240,104	Off	0	Off	0	NR	589,860	NR	240,104	NR	NR
04.20.07	1315	Off	0	1.08	267,981	Off	0	2.45	325,460	NR	NR	NR	243,623	Off	0	Off	0	NR	593,441	NR	243,623	NR	NR
04.21.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.22.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.23.07	1400	Off	0	1.07	272,689	Off	0	2.06	334,536	18-6x	NR	0.00	258,788	Off	0	Off	0	NR	607,225	NR	258,788	NR	NR
04.24.07	1130	Off	0	1.07	274,074	Off	0	1.99	336,948	0-0	NR	0.00	260,638	Off	0	Off	0	NR	611,022	NR	260,638	NR	NR
04.25.07	1315	Off	0	1.08	275,370	Off	0	1.92	339,778	20-6	35-15	5.60	264,934	Off	0	Off	0	NR	615,148	NR	264,934	NR	NR
04.26.07	1055	Off	0	1.07	277,130	Off	0	1.92	342,229	NR	NR	NR	268,744	Off	0	Off	0	NR	618,359	NR	268,744	NR	NR
04.27.07	1243	Off	0	1.00	278,786	Off	0	1.73	344,856	25-5x	40-22	4.77	272,857	Off	0	Off	0	NR	623,642	NR	272,857	NR	NR
04.28.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.29.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
04.30.07	1445	Off	0	1.08	283,540	Off	0	2.17	352,554	2-2	41-17	3.83	284,480	Off	0	Off	0	NR	636,094	NR	284,480	NR	NR
05.01.07	1045	Off	0	1.05	248,811	Off	0	2.13	355,061	2-2	41-16	3.62	287,603	Off	0	Off	0	NR	603,872	NR	287,603	NR	NR
05.02.07	1230	Off	0	1.06	286,467	Off	0	1.99	358,026	0-2	0-0	0.00	291,496	Off	0	Off	0	NR	644,493	NR	291,496	NR	NR
05.03.07	1230	Off	0	1.07	280,017	Off	0	1.78	360,572	2-2	42-16	3.41	294,928	Off	0	Off	0	NR	640,589	NR	294,928	NR	NR
05.04.07	1116	Off	0	1.09	289,474	Off	0	1.74	362,806	23-6x	44-11	4.91	298,203	Off	0	Off	0	NR	652,280	NR	298,203	NR	NR
05.05.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.06.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.07.07	1130	Off	0	1.16	294,573	Off	0	1.76	369,726	0-2	42-15	7.92	309,506	Off	0	Off	0	NR	664,299	NR	309,506	NR	NR
05.08.07	1515	Off	0	1.17	296,527	Off	0	1.55	372,381	2-2	41-16	5.68	313,815	Off	0	Off	0	NR	668,908	NR	313,815	NR	NR
05.09.07	1530	Off	0	1.18	298,235	Off	0	1.34	374,411	2-2	0-0	0.00	317,150	Off	0	Off	0	NR	772,646	NR	317,150	NR	NR
05.10.07	1300	Off	0	1.17	299,761	Off	0	1.25	375,937	0-0	0-0	0.00	319,943	Off	0	Off	0	NR	675,698	NR	319,943	NR	NR
05.11.07	1045	Off	0	1.17	301,292	Off	0	1.27	377,472	11-7	41-19	9.66	322,341	Off	0	Off	0	NR	678,764	NR	322,341	NR	NR
05.12.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.13.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.14.07	1315	Off	0	1.17	306,493	Off	0	1.27	382,686	1-1	0-0	0.00	331,684	Off	0	Off	0	NR	689,179	NR	331,684	NR	NR
05.15.07	1245	Off	0	1.17	308,121	Off	0	1.19	384,324	0-2	43-26	4.03	334,486	Off	0	Off	0	NR	692,445	NR	334,486	NR	NR
05.16.07	1250	Off	0	1.16	309,818	Off	0	1.20	386,013	2-2	0-0	0.00	337,626	Off	0	Off	0	NR	695,831	NR	337,626	NR	NR
05.17.07	1430	Off	0	1.17	311,630	Off	0	1.18	387,641	2-2	44-22	3.54	340,522	Off	0	Off	0	NR	699,271	NR	340,522	NR	NR
05.18.07	1230	Off	0	1.18	313,179	Off	0	1.16	389,022	NR	NR	NR	343,073	Off	0	Off	0	NR	702,201	NR	343,073	NR	NR
05.19.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.20.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.21.07	1600	Off	0	1.17	318,382	Off	0	1.39	394,448	2-2	44-14	2.10	353,726	Off	0	Off	0	NR	712,830	NR	353,726	NR	NR
05.22.07	1245	Off	0	0.75	319,742	Off	0	0.77	395,567	0-2	44-14	1.78	356,000	Off	0	Off	0	NR	713,309	NR	356,000	NR	NR
05.23.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.24.07	1630	Off	0	1.35	323,114	Off	0	0.00	396,480	0-0	45-13	1.53	360,765	Off	0	Off	0	NR	719,594	NR	360,765	NR	NR
05.25.07	1016	Off	0	1.32	324,372	Off	0	1.97	396,496	NR	45-7	2.89	361,890	Off	0	Off	0	NR	720,668	NR	361,890	NR	NR
05.26.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05.27.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 3 (continued): GROUNDWATER TREATMENT SYSTEM – OFFSITE GARAGE AND ABANDONED FIELD ROAD AREA – OPERATION AND MAINTENANCE LOG

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA									
		RECOVERY WELL RW-5S		RECOVERY WELL RW-5D		RECOVERY WELL RW-6		RECOVERY WELL RW-7		Bag Filter Pressure	Carbon Pressure	Injection Trench (=IW-6)		Injection Well IW-5		Recovery Well/ Injection Well RW-7/IW-7		TOTAL SYSTEM INFLOW		TOTAL SYSTEM OUTFLOW		COGEN	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow			Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(psi)	(psi)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gph)	(gal)
05 28 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
05 29 07	1530	Off	0	0 59	328,380	Off	0	0.91	401,356	0-0	0-0	0 00	372,825	Off	0	Off	0	NR	729,736	NR	372,825	NR	NR
05 30 07	1545	Off	0	0.58	329,251	Off	0	0.91	402,404	2-2	41-33	4 81	375,223	Off	0	Off	0	NR	731,655	NR	375,223	NR	NR
05.31 07	1615	Off	0	0 59	330.107	Off	0	0 91	403,439	0-0	0-0	0 00	377,913	Off	0	Off	0	NR	733,546	NR	377,913	NR	NR
06 01 07	1046	Off	0	0.59	330.752	Off	0	0.91	404,217	**12-7x**	42-29	4.44	379,725	Off	0	Off	0	NR	734 969	NR	379,725	NR	NR
00 02 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 03 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 04 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 05 07	1345	Off	0	1 09	337,182	Off	0	1 78	414,148	0-0	40-28	4.29	396,406	Off	0	Off	0	NR	751,330	NR	396,406	NR	NR
06 06 07	1415	Off	0	1 10	338.783	Off	0	1.82	*10 835*	1-1	41-29	4 37	400,270	Off	0	Off	0	NR	*349,618*	NR	400,270	NR	NR
06 07 07	1515	Off	0	1 10	340.420	Off	0	1 89	*13.290*	2-2	41-29	4 32	404,111	Off	0	Off	0	NR	353,715	NR	404,111	NR	NR
06 08 07	1036	Off	0	1 10	341 695	Off	0	1 76	420,882	NR	43-27	4.18	407,139	Off	0	Off	0	NR	762,577	NR	407,139	NR	NR
06 09 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 10 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 11 07	1440	Off	0	1 10	346 683	Off	0	2 01	428,401	13-6	0-0	0.00	418,061	Off	0	Off	0	NR	775 084	NR	418,061	NR	NR
06 12 07	1515	Off	0	1 10	346,304	Off	0	1 80	431,150	**20-2x**	43-20	3 47	421,677	Off	0	Off	0	NR	779,454	NR	421 677	NR	NR
06 13 07	1335	Off	0	1 10	349.770	Off	0	1 87	433,400	1-2	42-18	3 24	424 970	Off	0	Off	0	NR	783,170	NR	424,970	NR	NR
06 14 07	1045	Off	0	1 09	351 163	Off	0	1 97	435.663	0-2	43-17	3.01	428,026	Off	0	Off	0	NR	786,826	NR	428.026	NR	NR
06 15 07	1008	Off	0	1 09	352,702	Off	0	1 53	438,132	**17-6x**	44-15	3 99	431,505	Off	0	Off	0	NR	790 834	NR	431.505	NR	NR
06 16 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 17 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 18 07	1530	Off	0	1 10	357 800	Off	0	1 74	445,219	0-2	43-8	4 08	442 539	Off	0	Off	0	NR	603,019	NR	442,539	NR	NR
06 19 07	1040	Off	0	1 14	446 450	Off	0	1 10	*359,039*	7-7	43-7	3 48	444,590	Off	0	Off	0	NR	805,489	NR	444,590	NR	NR
06 20 07	1410	Off	0	1 11	360.854	Off	0	1 12	447,999	2-2	44-18	3.85	448,474	Off	0	Off	0	NR	808,853	NR	448,474	NR	NR
06 21 07	1220	Off	0	1 10	362.325	Off	0	1 11	449,252	0-2	44-11	2 31	451.436	Off	0	Off	0	NR	811 577	NR	451,436	NR	NR
06 22 07	1525	Off	0	0 70	363 822	Off	0	0 80	*40,625*	6-7	44 5-10	1 85	454,631	Off	0	Off	0	NR	*404,447*	NR	454,631	NR	NR
06 23 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 24 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 25 07	1400	Off	0	0 33	366,073	Off	0	0 00	450,625	0-2	42-8	4 03	459,371	Off	0	Off	0	NR	816,698	NR	459,371	NR	NR
06 26 07	1045	Off	0	0 33	366,480	Off	0	0.00	450,625	2-2	0-0	0 00	460,425	Off	0	Off	0	NR	817,105	NR	460,425	NR	NR
06 27 07	1015	Off	0	0.00	450 625	Off	0	0 34	*366,951*	0-2	43-7	3 87	461,600	Off	0	Off	0	NR	817,576	NR	461 600	NR	NR
06 28 07	1030	Off	0	0.32	367,430	Off	0	0 00	450,625	0-0	40-37	0.00	462,630	Off	0	Off	0	NR	818,055	NR	462,630	NR	NR
06 29 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
06 30 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 01 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 02 07	1000	Off	0	0 53	373 230	Off	0	0 00	450,872	2-2	0-0	0 00	469,333	**0.00**	**8,069**	Off	0	NR	824,102	NR	477,402	NR	NR
07 03 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 04 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 05 07	1010	Off	0	0 37	374,972	Off	0	2 5	450,872	0-0	0-0	NR	472,882	NR	12,311	Off	0	NR	825,844	NR	485,183	NR	NR
07 06 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 07 07	0845	Off	0	1 10	377 952	Off	0	0 00	450,872	2-2	40-33	2 27	474 745	2.66	14.681	Off	0	NR	828,824	NR	489,426	NR	NR
07 08 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 09 07	1345	Off	0	1 10	381 515	Off	0	0 00	450 872	0-2	0-0	0 00	477.042	0 00	17,470	Off	0	NR	832,387	NR	494,512	NR	NR
07 10 07	1350	Off	0	1 10	383,117	Off	0	0 00	450 872	12-7	42-30	2 13	477.936	2 59	18,520	Off	0	NR	833,989	NR	496,456	NR	NR
07.11 07	0930	Off	0	1 06	384.405	Off	0	0.00	450,872	0-2	0-0	0 00	478,842	0 00	19.647	Off	0	NR	835,277	NR	498,489	NR	NR
07 12 07	0815	Off	0	1 09	385,898	Off	0	1 73	450,875	13-7	42-28	2 03	479.666	2.60	20,676	Off	0	NR	*809,733*	NR	500,342	NR	NR
07 13 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 14 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 15 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 3 (continued): GROUNDWATER TREATMENT SYSTEM – OFFSITE GARAGE AND ABANDONED FIELD ROAD AREA – OPERATION AND MAINTENANCE LOG

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW-5S		RECOVERY WELL RW-5D		RECOVERY WELL RW-6		RECOVERY WELL RW-7		Bag Filter Pressure	Carbon Pressure	Injection Trench (=IW-6)		Injection Well IW-5		Recovery Well/ Injection Well RW-7/IW-7		TOTAL SYSTEM INFLOW		TOTAL SYSTEM OUTFLOW		COGEN	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow			Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(psi)	(psi)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gph)	(gal)
07 16 07	1340	Off	0	1 08	392.514	Off	0	1 94	460,390	19-6x	0-0	0.00	491,161	0 00	25,068	Off	0	NR	852,904	NR	516,229	NR	NR
07.17.07	1130	Off	0	1 06	393,921	Off	0	1.83	462,825	0-0	0-0	0.00	493,588	NR	25,796	Off	0	NR	856,746	NR	519,384	NR	NR
07.18 07	1500	Off	0	1 09	395,724	Off	0	0.00	462,831	0-0	44-43	2.64	494,653	0.32	25,914	Off	0	NR	858,555	NR	520,587	NR	NR
07 19 07	1110	Off	0	1 09	397,028	Off	0	0.00	462,831	0-0	44-43	2.63	495,411	0.32	25,986	Off	0	NR	859,859	NR	521,397	NR	NR
07 20.07	1043	Off	0	1.10	398,576	Off	0	2.27	463,030	9-7	40-23	2.27	496,528	0.32	26,100	Off	0	NR	861,606	NR	522,628	NR	NR
07.21 07	1645	Off	0	1.10	403,630	Off	0	2.20	472,195	2-2	49-18	3.40	502,165	4.54	33,801	Off	0	NR	875,825	NR	535,786	NR	NR
07 22 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.23 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07.24 07	1000	Off	0	1.09	404,784	Off	0	2.15	474,426	7-5	42-18	3 31	503,220	4.57	34,829	Off	0	NR	879,210	NR	538,049	NR	NR
07.25 07	1115	Off	0	1 10	406,444	Off	0	1.71	477,263	2-2	41-17	3.20	504,920	4.26	36,826	Off	0	NR	883,707	NR	541,746	NR	NR
07 26.07	1030	Off	0	1 10	407,966	Off	0	2.19	480,070	10-5x	0-0	0.00	506,263	0 00	38,471	Off	0	NR	888,036	NR	544,734	NR	NR
07.27 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 28 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 29 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
07 30 07	1549	Off	0	1 14	414 633	Off	0	2.03	491,725	NR	43-14	2.79	512,374	3.01	46,197	Off	0	NR	906,358	NR	558,571	NR	NR
07 31 07	1230	Off	0	1 89	494,064	Off	0	0 81	416,008	0-0	0-0	0 00	513,929	0.00	47,403	Off	0	NR	910,072	NR	561,332	NR	NR
08 01 07	1030	Off	0	0 82	417,102	Off	0	1.89	496,468	1-1	42-11	3.87	515,289	3 46	48,457	Off	0	NR	913,570	NR	563,755	NR	NR
08 02 07	1130	Off	0	0 68	418,222	Off	0	1.66	498,940	1-1	0-0	0.00	516,192	0 00	49,496	Off	0	NR	917,152	NR	565,688	NR	NR
08 03 07	1048	Off	0	0 65	419 163	Off	0	1 58	500,919	10-9x	42-38	0 37	516,192	3 35	50,479	Off	0	NR	920,082	NR	566,671	NR	NR
08 04 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08 05 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08 06 07	1315	Off	0	NR	NR	Off	0	0.00	501,432	0-0	0-0	0 00	521,306	0 00	55,972	Off	0	NR	501,432	NR	577,278	NR	NR
08 07 07	1115	Off	0	NR	NR	Off	0	0.00	501,432	0-0	0-0	0 00	522,154	0 00	57,626	Off	0	NR	501,432	NR	579,780	NR	NR
08 08 07	1310	Off	0	NR	NR	Off	0	1.71	501,432	0-0	44-34	3.38	524,348	3.83	59,428	Off	0	NR	501,432	NR	583,776	NR	NR
08 09 07	1315	Off	0	0 93	1,245	Off	0	1 78	503,154	0-0	0-0	0.00	525,934	0.00	61,165	Off	0	NR	504,399	NR	587,099	NR	NR
08 10 07	1145	Off	0	1 04	1,353	Off	0	1 64	NR	0-0	38-27	4 06	525,891	4 38	61,213	Off	0	NR	NR	NR	587,104	NR	NR
08 11 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08 12 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.13 07	1045	Off	0	1 52	6,120	Off	0	0.35	3,284	0-0	30-13	2.77	529,484	2.87	65,037	Off	0	NR	9,404	NR	594,521	NR	NR
08.14 07	1400	Off	0	0 36	3,867	Off	0	1 53	8 650	0-0	0-0	0 00	530,635	0 00	86,002	Off	0	NR	12,517	NR	596,837	NR	NR
08 15 07	1415	Off	0	0 37	4,390	Off	0	1.70	10,862	20-3	7-0	0 00	531,475	0.00	66 612	Off	0	NR	15,252	NR	598,087	NR	NR
08 16 07	1245	Off	0	0 36	4,875	Off	0	1 71	12,169	23-3x	25-13	2.73	532,436	3.06	67,325	Off	0	NR	17,044	NR	599,761	NR	NR
08 17 07	1130	Off	0	0 37	5,376	Off	0	1 67	15,477	4-3	NR	NR	533,452	NR	68,043	Off	0	NR	20,853	NR	601,495	NR	NR
08 18 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08 19 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.20 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.21 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.22 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.23 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08 24 07	NR	Off	0	1 05	5,539	Off	0	2.02	15,780	6-7	36-29	4 36	533,496	4.24	68,082	Off	0	NR	21,319	NR	601,578	NR	NR
08 25 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08 26 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08.27 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
08 28 07	1100	Off	0	0 78	10,112	Off	0	2 13	27,209	0-0	38-20	3 64	542,104	3.44	74,637	Off	0	NR	37,321	NR	616,741	NR	NR
08 29 07	1200	Off	0	0 78	11,219	Off	0	2 25	30,313	6-6	0-0	0.00	544,039	0 00	75,742	Off	0	NR	41,532	NR	619,781	NR	NR
08 30 07	1230	Off	0	0 79	12,375	Off	0	2 32	33,666	0-0	0-0	0 00	546,148	NR	76,947	Off	0	NR	46,041	NR	NR	NR	NR
08 31 07	1058	Off	0	0 28	13,313	Off	0	2 22	36,716	7-6	39-16	3 33	548,012	3 05	78,012	Off	0	NR	50,031	NR	626,024	NR	NR
09 01 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 02 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 3 (continued): GROUNDWATER TREATMENT SYSTEM – OFFSITE GARAGE AND ABANDONED FIELD ROAD AREA – OPERATION AND MAINTENANCE LOG

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW-5S		RECOVERY WELL RW-5D		RECOVERY WELL RW-6		RECOVERY WELL RW-7				Injection Trench (=IW-6)		Injection Well IW-5		Recovery Well/ Injection Well RW-7/IW-7		TOTAL SYSTEM INFLOW		TOTAL SYSTEM OUTFLOW		COGEN	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Bag Filter Pressure	Carbon Pressure	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(psi)	(psi)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gph)	(gal)
09 03 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 04 07	1400	Off	0	1 09	19,632	Off	0	1 87	48,665	0-0	40-12	2.87	555,832	2.63	83,022	Off	0	NR	68,497	NR	638,854	NR	NR
09 05 07	1330	Off	0	1 09	21,359	Off	0	1 59	51,041	12-6	0-0	0 00	557,514	0.00	84,234	Off	0	NR	72,400	NR	841,748	NR	NR
09 06 07	1115	Off	0	1 10	22,791	Off	0	0.00	52,848	13-6	0-0	0 00	559,007	0.00	84,426	Off	0	NR	75,639	NR	643,433	NR	NR
09 07 07	1126	Off	0	1 10	24,398	Off	0	1 97	52,866	NR	41-9	2.45	560,713	2.21	86,788	Off	0	NR	77,264	NR	647,501	NR	NR
09 08 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 09 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 10 07	1200	Off	0	1 09	29,149	Off	0	1 92	61,119	0-0	40-4	3 15	586,159	3.46	91,423	Off	0	NR	90,268	NR	677,582	NR	NR
09 11 07	1310	Off	0	1 10	30,799	Off	0	2 08	64,160	0-0	41-4	3.20	587,860	3.57	92,832	Off	0	NR	94,859	NR	680,492	NR	NR
09 12 07	1500	Off	0	1 09	32,493	Off	0	2 23	67,507	20-5	41-4	3.15	589,581	3.45	93,806	Off	0	NR	100,000	NR	683,387	NR	NR
09 13 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 14 07	1015	Off	0	0 99	35 108	Off	0	1 71	69,839	19-5x	42-4	3 03	572,603	3.29	95,834	Off	0	NR	104,947	NR	668,437	NR	NR
09 15 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 16 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 17 07	1340	Off	0	0.58	38,263	Off	0	0.00	70,728	1-1	40-4	3.29	578,893	2 65	99,337	Off	0	NR	108,991	NR	677,930	NR	NR
09 18 07	1420	Off	0	0.58	39,108	Off	0	0.00	70,728	0-0	0-0	0.00	580,272	0.00	100,355	Off	0	NR	109,836	NR	680,627	NR	NR
09 19 07	1415	Off	0	0 58	39,925	Off	0	1.31	70,728	0-0	41-4	3.36	581,868	2.42	101,322	Off	0	NR	110,653	NR	683,190	NR	NR
09 20 07	1515	Off	0	0 58	40,796	Off	0	0.00	70,734	0-0	0-0	0 00	584,118	0.00	102,707	Off	0	NR	111,530	NR	686,825	NR	NR
09 21 07	1557	Off	0	0 58	41,650	Off	0	1 66	70,737	8-6	NR	NR	586,229	NR	104,072	Off	0	NR	112,387	NR	690,301	NR	NR
09 22 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 23 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 24 07	1115	Off	0	0 76	44,861	Off	0	0 00	70,758	0-0	0-0	0.00	592,576	0 00	108,602	Off	0	NR	115,839	NR	701,178	NR	NR
09 25 07	1230	Off	0	0 75	46,023	Off	0	0 00	70,758	0-0	42-4	1 16	594,918	2.61	109,770	Off	0	NR	116,781	NR	704,688	NR	NR
09 26 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 27 07	1000	Off	0	0 70	48,017	Off	0	0 00	70,758	0-0	42-4	1 28	597,518	2.49	112,737	Off	0	NR	118,775	NR	710,255	NR	NR
09 28 07	1055	Off	0	0 71	49,082	Off	0	1 64	70,758	10-5	43-6	1 28	598,142	2 40	114,795	Off	0	NR	119,840	NR	712,937	NR	NR
09 29 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09 30 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 01 07	1250	Off	0	0 89	53,250	Off	0	0.00	75,990	0-0	42-3	0 00	596,612	2.45	122,246	Off	0	NR	129,240	NR	720,858	NR	NR
10 02 07	1115	Off	0	0 89	54,444	Off	0	0 00	75,990	0-0	0-0	0.00	598,615	0 00	122,824	Off	0	NR	130,434	NR	721,439	NR	NR
10 03 07	1029	Off	0	0.90	55 680	Off	0	1 99	75,989	12-5	44-5	1 02	598,622	1 77	124,133	Off	0	NR	131,669	NR	722,755	NR	NR
10 04 07	1330	Off	0	0 00	58,765	Off	0	NR	76,225	0-0	44-0	0.00	598,705	1 96	125,117	Off	0	NR	134,990	NR	723,822	NR	NR
10 05 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 06 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 07 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 08 07	1515	Off	0	0 00	58,295	Off	0	0 00	76,226	0-0	44-0	0.00	598,705	1.24	125,742	Off	0	NR	134,521	NR	724,447	NR	NR
10 09 07	1330	Off	0	0 00	58,275	Off	0	0 00	76,226	0-0	44-0	0 00	598,705	1.21	125,742	Off	0	NR	134,501	NR	724,447	NR	NR
10 10 07	1223	Off	0	1 38	58,267	Off	0	1 66	76,230	20-5x	43-39	0 80	598,799	1 12	125,743	Off	0	NR	134,517	NR	724,542	NR	NR
10 11 07	1030	Off	0	1 17	59 776	Off	0	0 37	76,890	0-0	0-0	0 00	601,202	0 00	127 748	Off	0	NR	136,666	NR	728,950	NR	NR
10 12 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 13 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 14 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 15 07	1115	Off	0	1 09	66,204	Off	0	0.00	76,893	0-0	0-0	0.00	607,459	0 00	133,624	Off	0	NR	143,097	NR	741,083	NR	NR
10 16 07	1400	Off	0	1 07	67,970	Off	0	0 00	76,893	0-0	0-0	0 00	609,244	0 00	135,602	Off	0	NR	144,863	NR	744,846	NR	NR
10 17 07	1000	Off	0	1 08	69,271	Off	0	1 99	79,272	7-6	0-0	0 00	611,046	0 00	137,572	Off	0	NR	148,543	NR	748,618	NR	NR
10 18 07	1150	Off	0	1 08	70 938	Off	0	2 02	82 353	0-0	0-0	0.00	613,642	0 00	140,384	Off	0	NR	153,291	NR	754,026	NR	NR
10 19 07	1109	Off	0	1 13	72,469	Off	0	2.09	85,247	6-5	0-0	4 44	615,794	4 55	142,685	Off	0	NR	157 718	NR	758,479	NR	NR
10 20 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10 21 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 3 (continued): GROUNDWATER TREATMENT SYSTEM – OFFSITE GARAGE AND ABANDONED FIELD ROAD AREA – OPERATION AND MAINTENANCE LOG

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW-5S		RECOVERY WELL RW-5D		RECOVERY WELL RW-6		RECOVERY WELL RW-7		Bag Filter Pressure	Carbon Pressure	Injection Trench (=IW-6)		Injection Well IW-5		Recovery Well/ Injection Well RW-7/IW-7		TOTAL SYSTEM INFLOW		TOTAL SYSTEM OUTFLOW		COGEN	
		Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow			Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow	Flow Rate	Total Flow
Date	Time	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(psi)	(psi)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gpm)	(gal)	(gph)	(gal)
10.22.07	1250	Off	0	1.07	77,288	Off	0	2.30	94,877	8-6	40-30	4.20	623,134	4.33	150,320	Off	0	NR	172,165	NR	773,454	NR	NR
10.23.07	1530	Off	0	1.07	79,023	Off	0	2.35	96,592	0-0	0-0	0.00	626,684	0.00	153,139	Off	0	NR	177,615	NR	778,823	NR	NR
10.24.07	1040	Off	0	1.13	80,294	Off	0	2.41	101,371	0-0	0-0	0.00	627,502	0.00	155,133	Off	0	NR	181,665	NR	782,635	NR	NR
10.25.07	NR	Off	0	1.07	81,944	Off	0	NR	104,925	12-6x	0-0	NR	NR	NR	NR	Off	0	NR	186,869	NR	NR	NR	NR
10.26.07	1547	Off	0	1.09	83,782	Off	0	2.37	108,896	Off	Off	NR	631,560	NR	160,592	Off	0	NR	192,658	NR	792,152	NR	NR
10.27.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10.28.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10.29.07	1400	Off	0	1.16	88,356	Off	0	2.42	119,044	0-0	0-0	0.00	631,560	0.00	164,437	Off	0	NR	207,400	NR	795,997	NR	NR
10.30.07	1530	Off	0	1.08	90,017	Off	0	2.46	122,773	17-4x	0-0	0.00	631,560	0.00	164,437	Off	0	NR	212,790	NR	796,997	NR	NR
10.31.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.01.07	1230	Off	0	1.07	92,939	Off	0	2.53	129,537	0-0	41-18	0.00	631,560	0.00	164,437	Off	0	NR	222,476	NR	795,997	NR	NR
11.02.07	1048	Off	0	1.10	94,410	Off	0	2.55	132,974	0-0	41-10	0.00	631,560	0.00	164,443	Off	0	NR	227,384	NR	798,003	NR	NR
11.03.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.04.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.05.07	1245	Off	0	1.07	99,319	Off	0	2.53	144,391	8-6	0-0	0.00	634,172	0.00	171,323	Off	0	NR	243,710	NR	805,495	NR	NR
11.06.07	1530	Off	0	1.08	101,077	Off	0	2.41	148,460	0-0	41-37	3.40	634,242	3.32	173,770	Off	0	NR	249,537	NR	808,012	NR	NR
11.07.07	0941	Off	0	1.07	102,291	Off	0	2.51	151,177	NR	NR	NR	NR	NR	NR	Off	0	NR	253,468	NR	NR	NR	NR
11.08.07	1200	Off	0	1.14	104,011	Off	0	2.69	155,257	0-0	0-0	0.00	638,534	0.00	177,978	Off	0	NR	259,268	NR	816,512	NR	NR
11.09.07	1320	Off	0	1.18	105,689	Off	0	2.69	159,348	0-0	40-35	3.26	640,875	3.19	180,309	Off	0	NR	265,037	NR	820,984	NR	NR
11.10.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.11.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.12.07	1420	Off	0	1.08	110,473	Off	0	2.76	171,367	0-0	40-32	3.10	646,852	3.01	187,020	Off	0	NR	281,840	NR	833,872	NR	NR
11.13.07	1015	Off	0	1.07	111,786	Off	0	2.72	174,677	13-5	0-0	0.00	648,487	0.00	188,722	Off	0	NR	286,463	NR	837,209	NR	NR
11.14.07	1133	Off	0	1.07	113,453	Off	0	2.37	177,933	13-4.5	42-31	3.05	650,677	2.94	190,984	Off	0	NR	291,386	NR	841,661	NR	NR
11.15.07	1000	Off	0	1.14	114,905	Off	0	0.00	177,940	0-0	40-30	2.96	652,680	2.85	193,192	Off	0	NR	292,845	NR	846,072	NR	NR
11.16.07	0950	Off	0	1.08	116,480	Off	0	1.39	177,940	NR	42-29	2.96	655,182	2.85	195,476	Off	0	NR	294,420	NR	850,658	NR	NR
11.17.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.18.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.19.07	1400	Off	0	1.08	121,502	Off	0	1.34	181,223	0-0	0-0	0.00	663,171	0.00	200,820	Off	0	NR	302,725	NR	863,991	NR	NR
11.20.07	1230	Off	0	1.09	122,978	Off	0	2.30	181,967	20-4x	0-0	0.00	665,254	0.00	202,210	Off	0	NR	304,945	NR	867,464	NR	NR
11.21.07	1250	Off	0	1.12	124,583	Off	0	0.94	183,455	0-0	0-0	0.00	667,778	0.00	203,898	Off	0	NR	308,038	NR	871,676	NR	NR
11.22.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.23.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.24.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.25.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.26.07	1005	Off	0	0.98	132,009	Off	0	2.06	184,088	25-4x	NR	NR	678,059	NR	210,494	Off	0	NR	316,097	NR	888,553	NR	NR
11.27.07	1300	Off	0	0.96	133,572	Off	0	1.80	184,125	0-0	0-0	0.00	681,045	0.00	212,263	Off	0	NR	317,897	NR	893,308	NR	NR
11.28.07	1400	Off	0	0.95	134,999	Off	0	1.36	184,486	0-0	42-12	2.70	683,332	1.59	213,695	Off	0	NR	319,485	NR	897,027	NR	NR
11.29.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11.30.07	1300	Off	0	0.94	137,712	Off	0	NR	184,487	0-0	0-0	0.00	686,301	0.00	215,496	Off	0	NR	322,199	NR	901,797	NR	NR
12.01.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.02.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.03.07	1430	Off	0	0.93	141,887	Off	0	1.98	184,487	5-5	43-6	1.99	692,981	0.91	218,806	Off	0	NR	326,374	NR	911,787	NR	NR
12.04.07	1035	Off	0	1.17	142,935	Off	0	1.73	184,601	NR	44-36	1.62	694,773	0.69	219,736	Off	0	NR	327,536	NR	914,509	NR	NR
12.05.07	1415	Off	0	0.95	144,533	Off	0	1.73	187,446	0-0	0-0	0.00	697,610	0.00	222,653	Off	0	NR	331,979	NR	920,263	NR	NR
12.06.07	1215	Off	0	0.98	145,831	Off	0	1.76	189,783	0-0	0-0	0.00	699,613	0.00	224,653	Off	0	NR	335,614	NR	924,266	NR	NR
12.07.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.08.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.09.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 3 (continued): GROUNDWATER TREATMENT SYSTEM – OFFSTITE GARAGE AND ABANDONED FIELD ROAD AREA – OPERATION AND MAINTENANCE LOG

		SYSTEM INFLOW DATA								SYSTEM PRESSURE		SYSTEM OUTFLOW DATA											
		RECOVERY WELL RW – 5S		RECOVERY WELL RW – 5D		RECOVERY WELL RW – 6		RECOVERY WELL RW – 7		Bag Filter Pressure	Carbon Pressure	Injection Trench (= IW-6)		Injection Well IW-5		Recovery Well/ Injection Well RW-7/IW-7		TOTAL SYSTEM INFLOW		TOTAL SYSTEM OUTFLOW		COGEN	
Date	Time	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	(psi)	(psi)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gpm)	Total Flow (gal)	Flow Rate (gph)	Total Flow (gal)
12.10 07	1240	Off	0	0.99	151,467	Off	0	1.95	200,710	0-0	40-30	4.41	708,445	4.23	233,445	Off	0	NR	352,177	NR	941,890	NR	NR
12.11 07	1410	Off	0	0.96	152,956	Off	0	1.94	203,673	**15-5x**	40-22	4.36	710,758	4.12	235,704	Off	0	NR	356,629	NR	946,462	NR	NR
12.12 07	1055	Off	0	0.97	154,162	Off	0	1.97	206,107	0-0	41-26	4.20	712,844	4.02	237,695	Off	0	NR	360,269	NR	950,539	NR	NR
12.13 07	0940	Off	0	0.96	155,471	Off	0	1.99	208,802	0-0	40-25	4.09	714,845	3.86	239,712	Off	0	NR	364,273	NR	954,557	NR	NR
12.14 07	1130	Off	0	1.90	NR	Off	0	0.98	156,969	0-0	40-23	3.98	717,081	3.70	241,928	Off	0	NR	NR	NR	959,009	NR	NR
12.15.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.16.07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.17.07	1500	Off	0	0.97	161,350	Off	0	1.74	219,973	**16-4x**	41-17	3.40	723,635	3.13	248,299	Off	0	NR	381,323	NR	971,934	NR	NR
12.18 07	1300	Off	0	0.96	162,622	Off	0	1.71	222,244	0-0	42-15	3.24	725,541	2.94	250,108	Off	0	NR	384,866	NR	975,649	NR	NR
12.19 07	1310	Off	0	0.97	164,007	Off	0	1.67	224,680	0-0	0-0	0.00	727,404	0.00	252,012	Off	0	NR	388,687	NR	979,416	NR	NR
12.20 07	1415	Off	0	0.93	165,467	Off	0	1.50	227,136	NR	41-37	4.39	729,557	2.10	253,947	Off	0	NR	392,603	NR	983,504	NR	NR
12.21 07	1330	Off	0	0.97	166,786	Off	0	1.30	229,022	0-0	0-0	0.00	731,423	0.00	255,854	Off	0	NR	395,808	NR	987,277	NR	NR
12.22 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.23 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.24 07	1120	Off	0	0.94	170,706	Off	0	1.29	234,465	**22-4x**	0-0	0.00	738,645	0.00	256,200	Off	0	NR	405,171	NR	992,845	NR	NR
12.25 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.26.07	1420	Off	0	0.93	173,564	Off	0	1.15	238,157	0-0	0-0	0.00	740,217	0.00	256,200	Off	0	NR	411,721	NR	996,417	NR	NR
12.27 07	1410	Off	0	0.93	173,584	Off	0	1.15	238,157	0-0	0-0	0.00	740,217	0.00	256,200	Off	0	NR	411,721	NR	996,417	NR	NR
12.28 07	1315	Off	0	0.93	176,181	Off	0	0.00	240,468	0-0	0-0	0.00	743,324	0.00	257,219	Off	0	NR	416,049	NR	1,000,543	NR	NR
12.29 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.30 07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
12.31 07	1330	Off	0	0.91	180,667	Off	0	0.00	240,468	0-0	42-32	0.00	743,811	2.70	258,829	Off	0	NR	421,135	NR	1,002,640	NR	NR
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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2005 – 2006)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
12.07.05			2 oz. to CoGen	
12.08.05	1 lb. to each Bioreactor	0.75 lb. to each Bioreactor	2 oz. to CoGen	.33 lb. to each Bioreactor
12.08.05	2 lb. to IW-1, -2, -3, -4	3 lb. to IW-1, -2, -3, -4	5 lb. to IW-1, -2, -3, -4	1 lb. to IW-1, -2, -3, -4
12.09.05			2 oz. to CoGen	
12.12.05			2 oz. to CoGen	
12.13.05			2 oz. to CoGen	
12.14.05			2 oz. to CoGen	
12.15.05			2 oz. to CoGen	
12.16.05			2 oz. to CoGen	
12.19.05			2 oz. to CoGen	
12.20.05			2 oz. to CoGen	
12.21.05			2 oz. to CoGen	
12.22.05			2 oz. to CoGen	
12.23.05			2 oz. to CoGen	
12.27.05			2 oz. to CoGen	
12.28.05			2 oz. to CoGen	
12.29.05			2 oz. to CoGen	
12.30.05			2 oz. to CoGen	
01.03.06			2 oz. to CoGen	
01.04.06			2 oz. to CoGen	
01.06.06			2 oz. to CoGen	
01.09.06			2 oz. to CoGen	
01.10.06			2 oz. to CoGen	
01.11.06			2 oz. to CoGen	
01.11.06	5 lb. to Galley 1 & 2	5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
01.12.06			2 oz. to CoGen	
01.13.06		1 lb. to each Bioreactor	2 oz. to CoGen	.33 lb. to each Bioreactor
01.16.06			2 oz. to CoGen	
01.17.06			2 oz. to CoGen	
01.18.06			2 oz. to CoGen	
01.20.06			2 oz. to CoGen	
01.23.06			2 oz. to CoGen	
01.24.06			2 oz. to CoGen	
01.25.06			2 oz. to CoGen	
01.26.06			2 oz. to CoGen	
01.27.06		1 lb. to each Bioreactor	2 oz. to CoGen	.33 lb. to each Bioreactor
01.30.06			2 oz. to CoGen	
01.31.06			2 oz. to CoGen	
02.01.06			2 oz. to CoGen	
02.02.06			2 oz. to CoGen	
02.03.06			2 oz. to CoGen	

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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2005 – 2006)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
02.06.06			2 oz. to CoGen	
02.07.06			2 oz. to CoGen	
02.08.06			2 oz. to CoGen	
02.09.06			2 oz. to CoGen	
02.10.06		0.2 lb. to each Bioreactor	2 oz. to CoGen	.25 lb. to each Bioreactor
02.13.06			2 oz. to CoGen	
02.14.06			2 oz. to CoGen	
02.15.06			2 oz. to CoGen	
02.16.06			2 oz. to CoGen	
02.17.06			2 oz. to CoGen	
02.21.06			2 oz. to CoGen	
02.22.06			2 oz. to CoGen	
02.23.06			2 oz. to CoGen	
02.24.06		1 lb. to each Bioreactor	2 oz. to CoGen	.25 lb. to each Bioreactor
02.27.06			2 oz. to CoGen	
02.28.06			2 oz. to CoGen	
03.01.06			2 oz. to CoGen	
03.02.06			2 oz. to CoGen	
03.03.06			2 oz. to CoGen	
03.06.06		5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
03.07.06			2 oz. to CoGen	
03.08.06			2 oz. to CoGen	
03.09.06			2 oz. to CoGen	
03.01.06			2 oz. to CoGen	
03.02.06			2 oz. to CoGen	
03.03.06			2 oz. to CoGen	
03.06.06			2 oz. to CoGen	
03.07.06			2 oz. to CoGen	
03.08.06			2 oz. to CoGen	
03.09.06			2 oz. to CoGen	
03.10.06		1 lb. to each Bioreactor	2 oz. to CoGen	.25 lb. to each Bioreactor
03.11.06			2 oz. to CoGen	
03.13.06			2 oz. to CoGen	
03.14.06			2 oz. to CoGen	
03.15.06			2 oz. to CoGen	
03.16.06			2 oz. to CoGen	
03.17.06			2 oz. to CoGen	
03.20.06			2 oz. to CoGen	
03.21.06			2 oz. to CoGen	
03.22.06			2 oz. to CoGen	
03.23.06			2 oz. to CoGen	

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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2005 – 2006)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
03.24.06		1 lb. to each Bioreactor	2 oz. to CoGen	.25 lb. to each Bioreactor
03.27.06			2 oz. to CoGen	
03.28.06			2 oz. to CoGen	
03.29.06			2 oz. to CoGen	
03.30.06			2 oz. to CoGen	
03.31.06			2 oz. to CoGen	
04.03.06			2 oz. to CoGen	
04.04.06			2 oz. to CoGen	
04.05.06			2 oz. to CoGen	
04.06.06		5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
04.07.06		1 lb. to each Bioreactor	2 oz. to CoGen	.25 lb. to each Bioreactor
04.10.06			2 oz. to CoGen	
04.11.06			2 oz. to CoGen	
04.12.06	*System Off-Maintenance*	*System Off-Maintenance*	2 oz. to CoGen	
04.20.06	*System On*	*System On*	2 oz. to CoGen	
04.21.06			2 oz. to CoGen	
04.24.06			2 oz. to CoGen	
04.25.06			2 oz. to CoGen	
04.26.06			2 oz. to CoGen	
04.27.06			2 oz. to CoGen	
04.28.06		1 lb. to each Bioreactor	2 oz. to CoGen	.25 lb. to each Bioreactor
05.01.06			2 oz. to CoGen	
05.02.06			2 oz. to CoGen	
05.03.06			2 oz. to CoGen	
05.04.06			2 oz. to CoGen	
05.05.06			2 oz. to CoGen	
05.08.06			2 oz. to CoGen	
05.09.06		5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
05.10.06			2 oz. to CoGen	
05.11.06			2 oz. to CoGen	
05.12.06			2 oz. to CoGen	
05.15.06			2 oz. to CoGen	
05.16.06			2 oz. to CoGen	
05.17.06			2 oz. to CoGen	
05.18.06			2 oz. to CoGen	
05.19.06			2 oz. to CoGen	
05.22.06			2 oz. to CoGen	
05.23.06			2 oz. to CoGen	
05.24.06			2 oz. to CoGen	
05.25.06			2 oz. to CoGen	
05.26.06			2 oz. to CoGen	

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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2005 – 2006)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
05.30.06			2 oz. to CoGen	
05.31.06			2 oz. to CoGen	
06.01.06			2 oz. to CoGen	
06.02.06			2 oz. to CoGen	
06.05.06			2 oz. to CoGen	
06.06.06			2 oz. to CoGen	
06.07.06			2 oz. to CoGen	
06.08.06			2 oz. to CoGen	
06.09.06		3 lb. To Bioreactor 1	2 oz. to CoGen	.75 lb to Bioreactor 1
06.12.06			2 oz. to CoGen	
06.13.06		2.5 lb. to Galley 1 & 2	250 gal to Galley 1 & 2	1/2 lb. to Galley 1 & 2
06.14.06			2 oz. to CoGen	
06.15.06			2 oz. to CoGen	
06.16.06			2 oz. to CoGen	
06.19.06			2 oz. to CoGen	
06.20.06			2 oz. to CoGen	
06.21.06			2 oz. to CoGen	
06.22.06			2 oz. to CoGen	
06.23.06			2 oz. to CoGen	
06.26.06			2 oz. to CoGen	
06.27.06			2 oz. to CoGen	
06.28.06			2 oz. to CoGen	
06.29.06			2 oz. to CoGen	
06.30.06			2 oz. to CoGen	
07.05.06			2 oz. to CoGen	
07.06.06			2 oz. to CoGen	
07.07.06			2 oz. to CoGen	
07.10.06			2 oz. to CoGen	
07.11.06			2 oz. to CoGen	
07.12.06			2 oz. to CoGen	
07.13.06			2 oz. to CoGen	
07.14.06			2 oz. to CoGen	
07.17.06			2 oz. to CoGen	
07.18.06			2 oz. to CoGen	
07.19.06		3 lb. To Bioreactor 1	2 oz. to CoGen	.75 lb to Bioreactor 1
07.20.06		5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
07.21.06			2 oz. to CoGen	
07.24.06			2 oz. to CoGen	
07.25.06			2 oz. to CoGen	
07.26.06			2 oz. to CoGen	
07.27.06			2 oz. to CoGen	

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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2005 – 2006)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
07.28.06			2 oz. to CoGen	
07.31.06			2 oz. to CoGen	
08.01.06			2 oz. to CoGen	
08.02.06			2 oz. to CoGen	
08.03.06			2 oz. to CoGen	
08.04.06			2 oz. to CoGen	
08.07.06			2 oz. to CoGen	
08.08.06			2 oz. to CoGen	
08.09.06			2 oz. to CoGen	
08.10.06			2 oz. to CoGen	
08.11.06			2 oz. to CoGen	
08.14.06			2 oz. to CoGen	
08.15.06		5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
08.16.06			2 oz. to CoGen	
08.17.06			2 oz. to CoGen	
08.18.06			2 oz. to CoGen	
08.21.06			2 oz. to CoGen	
08.22.06			2 oz. to CoGen	
08.23.06			2 oz. to CoGen	
08.24.06			2 oz. to CoGen	
08.25.06			2 oz. to CoGen	
08.28.06			2 oz. to CoGen	
08.29.06			2 oz. to CoGen	
08.30.06			2 oz. to CoGen	
08.31.06		2 lb. To Bioreactor 1	2 oz. to CoGen	.75 lb to Bioreactor 1
09.01.06			2 oz. to CoGen	
09.05.06			2 oz. to CoGen	
09.06.06			2 oz. to CoGen	
09.07.06			2 oz. to CoGen	
09.08.06		5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
09.11.06			2 oz. to CoGen	
09.12.06			2 oz. to CoGen	
09.13.06			2 oz. to CoGen	
09.14.06			2 oz. to CoGen	
09.15.06			2 oz. to CoGen	
09.18.06			2 oz. to CoGen	
09.19.06			2 oz. to CoGen	
09.20.06		2 lb. To Bioreactor 1	2 oz. to CoGen	.75 lb to Bioreactor 1
09.22.06			2 oz. to CoGen	
09.25.06			2 oz. to CoGen	
09.26.06			2 oz. to CoGen	

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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2005 – 2006)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
09.27.06			2 oz. to CoGen	
09.28.06			2 oz. to CoGen	
09.29.06			2 oz. to CoGen	
10.03.06			2 oz. to CoGen	
10.04.06			2 oz. to CoGen	
10.05.06			2 oz. to CoGen	
10.06.06			2 oz. to CoGen	
10.09.06			2 oz. to CoGen	
10.10.06			2 oz. to CoGen	
10.11.06			2 oz. to CoGen	
10.12.06			2 oz. to CoGen	
10.13.06		5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
10.16.06			2 oz. to CoGen	
10.17.06			2 oz. to CoGen	
10.18.06			2 oz. to CoGen	
10.19.06			2 oz. to CoGen	
10.20.06			2 oz. to CoGen	
10.23.06			2 oz. to CoGen	
10.24.06			2 oz. to CoGen	
10.25.06			2 oz. to CoGen	
10.26.06			2 oz. to CoGen	
10.27.06			2 oz. to CoGen	
10.30.06			2 oz. to CoGen	
10.31.06			2 oz. to CoGen	
11.01.06			2 oz. to CoGen	
11.02.06			2 oz. to CoGen	
11.03.06			2 oz. to CoGen	
11.06.06			2 oz. to CoGen	
11.07.06			2 oz. to CoGen	
11.08.06			2 oz. to CoGen	
11.09.06			2 oz. to CoGen	
11.13.06			2 oz. to CoGen	
11.14.06		5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
11.16.06			2 oz. to CoGen	
11.17.06			2 oz. to CoGen	
11.20.06			2 oz. to CoGen	
11.21.06			2 oz. to CoGen	
11.27.06			2 oz. to CoGen	
11.28.06			2 oz. to CoGen	
12.01.06			2 oz. to CoGen	
12.04.06			2 oz. to CoGen	

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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2005 – 2006)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
12.05.06			2 oz. to CoGen	
12.06.06			2 oz. to CoGen	
12.07.06			2 oz. to CoGen	
12.08.06			2 oz. to CoGen	
12.11.06			2 oz. to CoGen	
12.12.06			2 oz. to CoGen	
12.13.06			2 oz. to CoGen	
12.14.06			2 oz. to CoGen	
12.15.06			2 oz. to CoGen	
12.18.06		5 lb. to Galley 1 & 2	500 gal to Galley 1 & 2	1 lb. to Galley 1 & 2
12.19.06			2 oz. to CoGen	
12.21.06			2 oz. to CoGen	
12.22.06			2 oz. to CoGen	
12.26.06			2 oz. to CoGen	
12.27.06			2 oz. to CoGen	
12.29.06			2 oz. to CoGen	

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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
12.30.06			2 oz. to CoGen	
01.03.07			2 oz. to CoGen	
01.04.07			2 oz. to CoGen	
01.06.07			2 oz. to CoGen	
01.09.07			2 oz. to CoGen	
01.10.07			2 oz. to CoGen	
01.11.07			2 oz. to CoGen	
01.11.07			2 oz. to CoGen	
01.12.07			2 oz. to CoGen	
01.13.07			2 oz. to CoGen	
01.16.07			2 oz. to CoGen	
01.17.07			2 oz. to CoGen	
01.19.07		10 lb. to Galley 1 & 2	1000 gal. to Galley 1 & 2	2 lb. to Galley 1 & 2
01.20.07			2 oz. to CoGen	
01.23.07			2 oz. to CoGen	
01.24.07			2 oz. to CoGen	
01.25.07			2 oz. to CoGen	
01.26.07			2 oz. to CoGen	
01.27.07			2 oz. to CoGen	
01.30.07			2 oz. to CoGen	
01.31.07			2 oz. to CoGen	
02.01.07		0.2 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	
02.02.07			2 oz. to CoGen	
02.03.07			2 oz. to CoGen	
02.06.07			2 oz. to CoGen	
02.07.07			2 oz. to CoGen	
02.08.07		0.2 lb. to Bioreactor 1	2 oz. to CoGen	0.2 lb. to Bioreactor 1
02.09.07			2 oz. to CoGen	
02.10.07			2 oz. to CoGen	
02.13.07		10 lb. to Galley 1 & 2	1000 gal. to Galley 1 & 2	2 lb. to Galley 1 & 2
02.14.07			2 oz. to CoGen	
02.15.07			2 oz. to CoGen	
02.16.07			2 oz. to CoGen	
02.17.07			2 oz. to CoGen	
02.21.07			2 oz. to CoGen	
02.22.07			2 oz. to CoGen	
02.23.07		1.0 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
02.24.07			2 oz. to CoGen	
02.27.07			2 oz. to CoGen	
02.28.07			2 oz. to CoGen	

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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
03.01.07			2 oz. to CoGen	
03.02.07			2 oz. to CoGen	
03.03.07			2 oz. to CoGen	
03.06.07			2 oz. to CoGen	
03.07.07			2 oz. to CoGen	
03.08.07			2 oz. to CoGen	
03.09.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
03.01.07			2 oz. to CoGen	
03.02.07			2 oz. to CoGen	
03.03.07			2 oz. to CoGen	
03.06.07			2 oz. to CoGen	
03.07.07			2 oz. to CoGen	
03.08.07			2 oz. to CoGen	
03.09.07			2 oz. to CoGen	
03.10.07			2 oz. to CoGen	
03.11.07			2 oz. to CoGen	
03.13.07			2 oz. to CoGen	
03.14.07			2 oz. to CoGen	
03.15.07			2 oz. to CoGen	
03.16.07			2 oz. to CoGen	
03.17.07			2 oz. to CoGen	
03.20.07			2 oz. to CoGen	
03.21.07		10 lb. to Galley 1 & 2	1000 gal. to Galley 1 & 2	2 lb. to Galley 1 & 2
03.22.07			2 oz. to CoGen	
03.23.07			2 oz. to CoGen	
03.24.07			2 oz. to CoGen	
03.27.07			2 oz. to CoGen	
03.28.07			2 oz. to CoGen	
03.29.07			2 oz. to CoGen	
03.30.07			2 oz. to CoGen	
03.31.07			2 oz. to CoGen	
04.03.07			2 oz. to CoGen	
04.04.07			2 oz. to CoGen	
04.05.07			2 oz. to CoGen	
04.06.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
04.07.07			2 oz. to CoGen	
04.10.07			2 oz. to CoGen	
04.11.07			2 oz. to CoGen	
04.12.07			2 oz. to CoGen	
04.20.07		5 lb. to Galley 2	500 gal. to Galley 2	1.0 lb. to Galley 2
04.21.07			2 oz. to CoGen	

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
04.24.07			2 oz. to CoGen	
04.25.07			2 oz. to CoGen	
04.26.07			2 oz. to CoGen	
04.27.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
04.28.07			2 oz. to CoGen	
05.01.07			2 oz. to CoGen	
05.02.07			2 oz. to CoGen	
05.03.07			2 oz. to CoGen	
05.04.07			2 oz. to CoGen	
05.05.07			2 oz. to CoGen	
05.08.07			2 oz. to CoGen	
05.09.07			2 oz. to CoGen	
05.10.07			2 oz. to CoGen	
05.11.07			2 oz. to CoGen	
05.12.07			2 oz. to CoGen	
05.15.07			2 oz. to CoGen	
05.16.07			2 oz. to CoGen	
05.17.07			2 oz. to CoGen	
05.18.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
05.19.07			2 oz. to CoGen	
05.22.07			2 oz. to CoGen	
05.23.07			2 oz. to CoGen	
05.24.07			2 oz. to CoGen	
05.25.07		5 lb. to Galley 2	500 gal. to Galley 2	1.0 lb. to Galley 2
05.26.07			2 oz. to CoGen	
05.30.07			2 oz. to CoGen	
05.31.07			2 oz. to CoGen	
06.01.07			2 oz. to CoGen	
06.02.07			2 oz. to CoGen	
06.05.07			2 oz. to CoGen	
06.06.07			2 oz. to CoGen	
06.07.07			2 oz. to CoGen	
06.08.07			2 oz. to CoGen	
06.09.07			2 oz. to CoGen	
06.12.07			2 oz. to CoGen	
06.13.07			2 oz. to CoGen	
06.14.07			2 oz. to CoGen	
06.15.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
06.16.07			2 oz. to CoGen	
06.19.07			2 oz. to CoGen	
06.20.07			2 oz. to CoGen	

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MicroSorb D.C. = Dechlorinator

TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
06.21.07			2 oz. to CoGen	
06.22.07		5 lb. to Galley 2	500 gal. to Galley 2	1.0 lb. to Galley 2
06.23.07			2 oz. to CoGen	
06.26.07			2 oz. to CoGen	
06.27.07			2 oz. to CoGen	
06.28.07			2 oz. to CoGen	
06.29.07			2 oz. to CoGen	
06.30.07			2 oz. to CoGen	
07.03.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
07.05.07			2 oz. to CoGen	
07.06.07			2 oz. to CoGen	
07.07.07			2 oz. to CoGen	
07.10.07			2 oz. to CoGen	
07.11.07			2 oz. to CoGen	
07.12.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
07.13.07			2 oz. to CoGen	
07.14.07			2 oz. to CoGen	
07.17.07			2 oz. to CoGen	
07.18.07			2 oz. to CoGen	
07.19.07			2 oz. to CoGen	
07.20.07			2 oz. to CoGen	
07.21.07			2 oz. to CoGen	
07.24.07			2 oz. to CoGen	
07.25.07			2 oz. to CoGen	
07.26.07			2 oz. to CoGen	
07.27.07			2 oz. to CoGen	
07.28.07			2 oz. to CoGen	
07.30.07		5 lb. to Galley 2	500 gal. to Galley 2	1.0 lb. to Galley 2
07.31.07			2 oz. to CoGen	
08.01.07			2 oz. to CoGen	
08.02.07			2 oz. to CoGen	
08.03.07			2 oz. to CoGen	
08.04.07			2 oz. to CoGen	
08.07.07			2 oz. to CoGen	
08.08.07			2 oz. to CoGen	
08.09.07			2 oz. to CoGen	
08.10.07			2 oz. to CoGen	
08.11.07			2 oz. to CoGen	
08.14.07			2 oz. to CoGen	
08.15.07			2 oz. to CoGen	
08.16.07			2 oz. to CoGen	
08.17.07			2 oz. to CoGen	
08.18.07			2 oz. to CoGen	

MicroSorb S.C. = Super Concentrate
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TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
08.21.07			2 oz. to CoGen	
08.22.07			2 oz. to CoGen	
08.23.07			2 oz. to CoGen	
08.24.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
08.25.07			2 oz. to CoGen	
08.28.07			2 oz. to CoGen	
08.29.07			2 oz. to CoGen	
08.30.07			2 oz. to CoGen	
08.31.07			2 oz. to CoGen	
09.01.07			2 oz. to CoGen	
09.05.07			2 oz. to CoGen	
09.06.07			2 oz. to CoGen	
09.07.07			2 oz. to CoGen	
09.08.07			2 oz. to CoGen	
09.11.07			2 oz. to CoGen	
09.12.07			2 oz. to CoGen	
09.13.07			2 oz. to CoGen	
09.14.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
09.15.07			2 oz. to CoGen	
09.18.07			2 oz. to CoGen	
09.19.07			2 oz. to CoGen	
09.20.07			2 oz. to CoGen	
09.21.07		5 lb. to Galley 2	500 gal. to Galley 2	1.0 lb. to Galley 2
09.25.07			2 oz. to CoGen	
09.26.07			2 oz. to CoGen	
09.27.07			2 oz. to CoGen	
09.28.07			2 oz. to CoGen	
09.29.07			2 oz. to CoGen	
10.03.07			2 oz. to CoGen	
10.04.07			2 oz. to CoGen	
10.05.07			2 oz. to CoGen	
10.06.07			2 oz. to CoGen	
10.09.07			2 oz. to CoGen	
10.10.07			2 oz. to CoGen	
10.11.07			2 oz. to CoGen	
10.12.07			2 oz. to CoGen	
10.13.07			2 oz. to CoGen	
10.16.07			2 oz. to CoGen	
10.17.07			2 oz. to CoGen	
10.18.07			2 oz. to CoGen	
10.19.07			2 oz. to CoGen	

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MicroSorb D.C. = Dechlorinator

TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
10.20.07			2 oz. to CoGen	
10.23.07			2 oz. to CoGen	
10.24.07			2 oz. to CoGen	
10.25.07			2 oz. to CoGen	
10.26.07		5 lb. to Galley 2	500 gal. to Galley 2	1.0 lb. to Galley 2
10.26.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
10.27.07			2 oz. to CoGen	
10.30.07			2 oz. to CoGen	
10.31.07			2 oz. to CoGen	
11.01.07			2 oz. to CoGen	
11.02.07			2 oz. to CoGen	
11.03.07			2 oz. to CoGen	
11.06.07			2 oz. to CoGen	
11.07.07			2 oz. to CoGen	
11.08.07			2 oz. to CoGen	
11.09.07			2 oz. to CoGen	
11.13.07			2 oz. to CoGen	
11.14.07			2 oz. to CoGen	
11.16.07			2 oz. to CoGen	
11.17.07			2 oz. to CoGen	
11.20.07			2 oz. to CoGen	
11.21.07			2 oz. to CoGen	
11.27.07			2 oz. to CoGen	
11.29.07		0.5 lb. to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb. to Bioreactor 1, 2, 3
11.29.07		5 lb. to Galley 2	500 gal. to Galley 2	1.0 lb. to Galley 2
12.01.07			2 oz. to CoGen	
12.04.07			2 oz. to CoGen	
12.05.07			2 oz. to CoGen	
12.06.07			2 oz. to CoGen	
12.07.07			2 oz. to CoGen	
12.08.07			2 oz. to CoGen	
12.11.07			2 oz. to CoGen	
12.12.07			2 oz. to CoGen	
12.13.07			2 oz. to CoGen	
12.14.07			2 oz. to CoGen	
12.15.07			2 oz. to CoGen	
12.18.07			2 oz. to CoGen	
12.19.07			2 oz. to CoGen	
12.20.07		5 lb. to Galley 2	500 gal. to Galley 2	1.0 lb. to Galley 2
12.22.07			2 oz. to CoGen	
12.26.07			2 oz. to CoGen	
12.27.07			2 oz. to CoGen	
12.29.07			2 oz. to CoGen	

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD

	REMEDIAL ADDITIVE TOTALS – 2005-2006			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-1	2 lb	3 lb	5 lb	1 lb
Injection Well IW-2	2 lb	3 lb	5 lb	1 lb
Injection Well IW-3	2 lb	3 lb	5 lb	1 lb
Injection Well IW-4	2 lb	3 lb	5 lb	1 lb
Bioreactor 1	1 lb	18.75 lb	-	5.24 lb
Bioreactor 2	1 lb	8.75 lb	-	2.99 lb
Bioreactor 3	1 lb	6.75 lb	-	1.74 lb
Galley 1	5 lb	52.5 lb	5,250 gal	10.0 lb
Galley 2	5 lb	52.5 lb	5,250 gal	10.5 lb
CoGen	-	-	484 oz	-

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MicroSorb D.C. = Dechlorinator

TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD

	REMEDIAL ADDITIVE TOTALS – 2007			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-1	Not Added	Not Added	Not Added	Not Added
Injection Well IW-2	Not Added	Not Added	Not Added	Not Added
Injection Well IW-3	Not Added	Not Added	Not Added	Not Added
Injection Well IW-4	Not Added	Not Added	Not Added	Not Added
Bioreactor 1	Not Added	6.9 lb	-	2.6 lb
Bioreactor 2	Not Added	6.7 lb	-	2.4 lb
Bioreactor 3	Not Added	6.7 lb	-	2.4 lb
Galley 1	Not Added	30 lb	3000 gal	6 lb
Galley 2	Not Added	70 lb	7000 gal	14 lb
CoGen	Not Added	Not Added	496 oz	Not Added

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 4: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD

	CUMULATIVE REMEDIAL ADDITIVE TOTALS – 2005-2007			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-1	2 lb	3 lb	5 lb	1 lb
Injection Well IW-2	2 lb	3 lb	5 lb	1 lb
Injection Well IW-3	2 lb	3 lb	5 lb	1 lb
Injection Well IW-4	2 lb	3 lb	5 lb	1 lb
Bioreactor 1	1 lb	25.65 lb	-	7.84 lb
Bioreactor 2	1 lb	15.45 lb	-	5.39 lb
Bioreactor 3	1 lb	13.45 lb	-	4.14 lb
Galley 1	5 lb	82.5 lb	8,250 gal	16 lb
Galley 2	5 lb	122.5 lb	12,250 gal	24.5 lb
CoGen	Not Added	Not Added	980 oz	Not Added

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA (2006)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
12.05.06			2 oz. to CoGen	
12.06.06			2 oz. to CoGen	
12.07.06			2 oz. to CoGen	
12.08.06			2 oz. to CoGen	
12.11.06			2 oz. to CoGen	
1212.06			2 oz. to CoGen	
12.13.06			2 oz. to CoGen	
12.14.06			2 oz. to CoGen	
12.15.06			2 oz. to CoGen	
12.18.06		5 lb. to Recovery Trench	500 gal to Recovery Trench	1 lb. to Recovery Trench
12.19.06			2 oz. to CoGen	
12.21.06			2 oz. to CoGen	
12.22.06			2 oz. to CoGen	
12.26.06			2 oz. to CoGen	
12.27.06			2 oz. to CoGen	
12.29.06			2 oz. to CoGen	

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
12.30.06			2 oz. to CoGen	
01.03.07			2 oz. to CoGen	
01.04.07			2 oz. to CoGen	
01.06.07			2 oz. to CoGen	
01.09.07			2 oz. to CoGen	
01.10.07			2 oz. to CoGen	
01.11.07			2 oz. to CoGen	
01.11.07			2 oz. to CoGen	
01.12.07			2 oz. to CoGen	
01.13.07			2 oz. to CoGen	
01.16.07			2 oz. to CoGen	
01.17.07			2 oz. to CoGen	
01.18.07			2 oz. to CoGen	
01.20.07			2 oz. to CoGen	
01.23.07			2 oz. to CoGen	
01.24.07			2 oz. to CoGen	
01.25.07			2 oz. to CoGen	
01.26.07			2 oz. to CoGen	
01.27.07			2 oz. to CoGen	
01.30.07			2 oz. to CoGen	
01.31.07			2 oz. to CoGen	
02.01.07			2 oz. to CoGen	
02.02.07			2 oz. to CoGen	
02.03.07			2 oz. to CoGen	
02.06.07			2 oz. to CoGen	
02.07.07			2 oz. to CoGen	
02.08.07		0.2 lb to Bioreactor 1	2 oz. to CoGen	0.2 lb to Bioreactor 1
02.09.07			2 oz. to CoGen	
02.10.07			2 oz. to CoGen	
02.13.07			2 oz. to CoGen	
02.14.07			2 oz. to CoGen	
02.15.07			2 oz. to CoGen	
02.16.07			2 oz. to CoGen	
02.17.07			2 oz. to CoGen	
02.21.07			2 oz. to CoGen	
02.22.07			2 oz. to CoGen	
02.23.07			2 oz. to CoGen	
02.24.07			2 oz. to CoGen	
02.27.07			2 oz. to CoGen	
02.28.07			2 oz. to CoGen	

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TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
03.01.07			2 oz. to CoGen	
03.02.07			2 oz. to CoGen	
03.03.07			2 oz. to CoGen	
03.06.07			2 oz. to CoGen	
03.07.07			2 oz. to CoGen	
03.08.07			2 oz. to CoGen	
03.09.07			2 oz. to CoGen	
03.01.07			2 oz. to CoGen	
03.02.07			2 oz. to CoGen	
03.03.07			2 oz. to CoGen	
03.06.07			2 oz. to CoGen	
03.07.07			2 oz. to CoGen	
03.08.07			2 oz. to CoGen	
03.09.07			2 oz. to CoGen	
03.10.07			2 oz. to CoGen	
03.11.07			2 oz. to CoGen	
03.13.07			2 oz. to CoGen	
03.14.07			2 oz. to CoGen	
03.15.07			2 oz. to CoGen	
03.16.07			2 oz. to CoGen	
03.17.07			2 oz. to CoGen	
03.20.07			2 oz. to CoGen	
03.21.07			2 oz. to CoGen	
03.22.07			2 oz. to CoGen	
03.23.07			2 oz. to CoGen	
03.24.07			2 oz. to CoGen	
03.27.07			2 oz. to CoGen	
03.28.07			2 oz. to CoGen	
03.29.07			2 oz. to CoGen	
03.30.07		0.2 lb to Bioreactor 1	2 oz. to CoGen	0.2 lb to Bioreactor 1
03.31.07			2 oz. to CoGen	
04.03.07			2 oz. to CoGen	
04.04.07			2 oz. to CoGen	
04.05.07			2 oz. to CoGen	
04.06.07			2 oz. to CoGen	
04.07.07			2 oz. to CoGen	
04.10.07			2 oz. to CoGen	
04.11.07			2 oz. to CoGen	
04.12.07			2 oz. to CoGen	
04.20.07			2 oz. to CoGen	
04.21.07			2 oz. to CoGen	

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TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
04.24.07			2 oz. to CoGen	
04.25.07			2 oz. to CoGen	
04.26.07			2 oz. to CoGen	
04.27.07		0.2 lb to Bioreactor 1, 2, 3	2 oz. to CoGen	
04.28.07			2 oz. to CoGen	
05.01.07			2 oz. to CoGen	
05.02.07			2 oz. to CoGen	
05.03.07			2 oz. to CoGen	
05.04.07			2 oz. to CoGen	
05.05.07			2 oz. to CoGen	
05.08.07			2 oz. to CoGen	
05.09.07			2 oz. to CoGen	
05.10.07			2 oz. to CoGen	
05.11.07			2 oz. to CoGen	
05.12.07			2 oz. to CoGen	
05.15.07			2 oz. to CoGen	
05.16.07			2 oz. to CoGen	
05.17.07			2 oz. to CoGen	
05.18.07		0.2 lb to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb to Bioreactor 1, 2, 3
05.19.07			2 oz. to CoGen	
05.22.07			2 oz. to CoGen	
05.23.07			2 oz. to CoGen	
05.24.07			2 oz. to CoGen	
05.25.07			2 oz. to CoGen	
05.26.07			2 oz. to CoGen	
05.30.07			2 oz. to CoGen	
05.31.07			2 oz. to CoGen	
06.01.07			2 oz. to CoGen	
06.02.07			2 oz. to CoGen	
06.05.07			2 oz. to CoGen	
06.06.07			2 oz. to CoGen	
06.07.07			2 oz. to CoGen	
06.08.07			2 oz. to CoGen	
06.09.07			2 oz. to CoGen	
06.12.07			2 oz. to CoGen	
06.13.07			2 oz. to CoGen	
06.14.07			2 oz. to CoGen	
06.15.07			2 oz. to CoGen	
06.16.07			2 oz. to CoGen	
06.19.07			2 oz. to CoGen	
06.20.07		0.2 lb to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb to Bioreactor 1, 2, 3

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
06.21.07			2 oz. to CoGen	
06.22.07			2 oz. to CoGen	
06.23.07			2 oz. to CoGen	
06.26.07			2 oz. to CoGen	
06.27.07			2 oz. to CoGen	
06.28.07			2 oz. to CoGen	
06.29.07			2 oz. to CoGen	
06.30.07			2 oz. to CoGen	
07.05.07		0.2 lb to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb to Bioreactor 1, 2, 3
07.06.07			2 oz. to CoGen	
07.07.07			2 oz. to CoGen	
07.10.07			2 oz. to CoGen	
07.11.07			2 oz. to CoGen	
07.12.07		0.2 lb to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb to Bioreactor 1, 2, 3
07.13.07			2 oz. to CoGen	
07.14.07			2 oz. to CoGen	
07.17.07			2 oz. to CoGen	
07.18.07			2 oz. to CoGen	
07.19.07			2 oz. to CoGen	
07.20.07			2 oz. to CoGen	
07.21.07			2 oz. to CoGen	
07.24.07			2 oz. to CoGen	
07.25.07			2 oz. to CoGen	
07.26.07			2 oz. to CoGen	
07.27.07			2 oz. to CoGen	
07.28.07			2 oz. to CoGen	
07.31.07			2 oz. to CoGen	
08.01.07			2 oz. to CoGen	
08.02.07			2 oz. to CoGen	
08.03.07		0.2 lb to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb to Bioreactor 1, 2, 3
08.04.07			2 oz. to CoGen	
08.07.07			2 oz. to CoGen	
08.08.07			2 oz. to CoGen	
08.09.07			2 oz. to CoGen	
08.10.07			2 oz. to CoGen	
08.11.07			2 oz. to CoGen	
08.14.07			2 oz. to CoGen	
08.15.07			2 oz. to CoGen	
08.16.07			2 oz. to CoGen	
08.17.07			2 oz. to CoGen	
08.18.07			2 oz. to CoGen	

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
08.21.07			2 oz. to CoGen	
08.22.07			2 oz. to CoGen	
08.23.07			2 oz. to CoGen	
08.24.07		0.2 lb to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb to Bioreactor 1, 2, 3
08.25.07			2 oz. to CoGen	
08.28.07			2 oz. to CoGen	
08.29.07			2 oz. to CoGen	
08.30.07			2 oz. to CoGen	
08.31.07			2 oz. to CoGen	
09.01.07			2 oz. to CoGen	
09.05.07			2 oz. to CoGen	
09.06.07			2 oz. to CoGen	
09.07.07			2 oz. to CoGen	
09.08.07			2 oz. to CoGen	
09.11.07			2 oz. to CoGen	
09.12.07			2 oz. to CoGen	
09.13.07			2 oz. to CoGen	
09.14.07		0.2 lb to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb to Bioreactor 1, 2, 3
09.15.07			2 oz. to CoGen	
09.18.07			2 oz. to CoGen	
09.19.07			2 oz. to CoGen	
09.20.07			2 oz. to CoGen	
09.22.07			2 oz. to CoGen	
09.25.07			2 oz. to CoGen	
09.26.07			2 oz. to CoGen	
09.27.07			2 oz. to CoGen	
09.28.07			2 oz. to CoGen	
09.29.07			2 oz. to CoGen	
10.03.07			2 oz. to CoGen	
10.04.07			2 oz. to CoGen	
10.05.07			2 oz. to CoGen	
10.06.07			2 oz. to CoGen	
10.09.07			2 oz. to CoGen	
10.10.07			2 oz. to CoGen	
10.11.07			2 oz. to CoGen	
10.12.07			2 oz. to CoGen	
10.13.07			2 oz. to CoGen	
10.16.07			2 oz. to CoGen	
10.17.07			2 oz. to CoGen	
10.18.07			2 oz. to CoGen	
10.19.07		0.2 lb to Bioreactor 1, 2, 3	2 oz. to CoGen	0.2 lb to Bioreactor 1, 2, 3

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA (2007)

DATE	MicroSorb S.C.	MicroSorb D.C.	Biocatalyst Activator	MicroSorb Nutrients
10.20.07			2 oz. to CoGen	
10.23.07			2 oz. to CoGen	
10.24.07			2 oz. to CoGen	
10.25.07			2 oz. to CoGen	
10.26.07			2 oz. to CoGen	
10.27.07			2 oz. to CoGen	
10.30.07			2 oz. to CoGen	
10.31.07			2 oz. to CoGen	
11.01.07			2 oz. to CoGen	
11.02.07			2 oz. to CoGen	
11.03.07			2 oz. to CoGen	
11.06.07			2 oz. to CoGen	
11.07.07			2 oz. to CoGen	
11.08.07			2 oz. to CoGen	
11.09.07			2 oz. to CoGen	
11.13.07			2 oz. to CoGen	
11.14.07			2 oz. to CoGen	
11.16.07			2 oz. to CoGen	
11.17.07			2 oz. to CoGen	
11.20.07			2 oz. to CoGen	
11.21.07			2 oz. to CoGen	
11.27.07			2 oz. to CoGen	
11.28.07			2 oz. to CoGen	
12.01.07			2 oz. to CoGen	
12.04.07			2 oz. to CoGen	
12.05.07			2 oz. to CoGen	
12.06.07			2 oz. to CoGen	
12.07.07			2 oz. to CoGen	
12.08.07			2 oz. to CoGen	
12.11.07			2 oz. to CoGen	
12.12.07			2 oz. to CoGen	
12.13.07			2 oz. to CoGen	
12.14.07			2 oz. to CoGen	
12.15.07			2 oz. to CoGen	
12.18.07			2 oz. to CoGen	
12.19.07			2 oz. to CoGen	
12.21.07			2 oz. to CoGen	
12.22.07			2 oz. to CoGen	
12.26.07			2 oz. to CoGen	
12.27.07			2 oz. to CoGen	
12.29.07			2 oz. to CoGen	

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA

	REMEDIAL ADDITIVE TOTALS – 2006			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-5S	-	-	-	-
Injection Well IW-5D	-	-	-	-
Injection Well IW-6	-	-	-	-
Injection Well IW-7	-	-	-	-
Bioreactor 1	-	-	-	-
Bioreactor 2	-	-	-	-
Bioreactor 3	-	-	-	-
Recovery Trench	-	5 lb	500 gal	1 lb
CoGen	-	-	32 oz	-

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA

	REMEDIAL ADDITIVE TOTALS – 2007			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-5S	Not Added	Not Added	Not Added	Not Added
Injection Well IW-5D	Not Added	Not Added	Not Added	Not Added
Injection Well IW-6	Not Added	Not Added	Not Added	Not Added
Injection Well IW-7	Not Added	Not Added	Not Added	Not Added
Bioreactor 1	Not Added	2.3 lb	Not Added	2.3 lb
Bioreactor 2	Not Added	1.8 lb	Not Added	1.8 lb
Bioreactor 3	Not Added	1.8 lb	Not Added	1.8 lb
Recovery Trench	Not Added	Not Added	Not Added	Not Added
CoGen	Not Added	Not Added	490 oz	Not Added

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 5: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA

	CUMULATIVE REMEDIAL ADDITIVE TOTALS – 2005-2007			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-5S	Not Added	Not Added	Not Added	Not Added
Injection Well IW-5D	Not Added	Not Added	Not Added	Not Added
Injection Well IW-6	Not Added	Not Added	Not Added	Not Added
Injection Well IW-7	Not Added	Not Added	Not Added	Not Added
Bioreactor 1	Not Added	2.3 lb	Not Added	2.3 lb
Bioreactor 2	Not Added	1.8 lb	Not Added	1.8 lb
Bioreactor 3	Not Added	1.8 lb	Not Added	1.8 lb
Recovery Trench	Not Added	5 lb	500 gal	1 lb
CoGen	Not Added	Not Added	522 oz	Not Added

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 6: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD

	REMEDIAL ADDITIVE TOTALS – 2005-2006			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-1	2 lb	3 lb	5 lb	1 lb
Injection Well IW-2	2 lb	3 lb	5 lb	1 lb
Injection Well IW-3	2 lb	3 lb	5 lb	1 lb
Injection Well IW-4	2 lb	3 lb	5 lb	1 lb
Bioreactor 1	1 lb	18.75 lb	-	5.24 lb
Bioreactor 2	1 lb	8.75 lb	-	2.99 lb
Bioreactor 3	1 lb	6.75 lb	-	1.74 lb
Galley 1	5 lb	52.5 lb	5,250 gal	10.0 lb
Galley 2	5 lb	52.5 lb	5,250 gal	10.5 lb
CoGen	-	-	484 oz	-

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 6: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD

	REMEDIAL ADDITIVE TOTALS – 2007			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-1	Not Added	Not Added	Not Added	Not Added
Injection Well IW-2	Not Added	Not Added	Not Added	Not Added
Injection Well IW-3	Not Added	Not Added	Not Added	Not Added
Injection Well IW-4	Not Added	Not Added	Not Added	Not Added
Bioreactor 1	Not Added	6.9 lb	-	2.6 lb
Bioreactor 2	Not Added	6.7 lb	-	2.4 lb
Bioreactor 3	Not Added	6.7 lb	-	2.4 lb
Galley 1	Not Added	30 lb	3000 gal	6 lb
Galley 2	Not Added	70 lb	7000 gal	14 lb
CoGen	Not Added	Not Added	496 oz	Not Added

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 6: REMEDIAL ADDITIVES LOG – ONSITE GROUNDWATER TREATMENT SYSTEM – WAREHOUSE/YARD

	CUMULATIVE REMEDIAL ADDITIVE TOTALS – 2005-2007			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-1	2 lb	3 lb	5 lb	1 lb
Injection Well IW-2	2 lb	3 lb	5 lb	1 lb
Injection Well IW-3	2 lb	3 lb	5 lb	1 lb
Injection Well IW-4	2 lb	3 lb	5 lb	1 lb
Bioreactor 1	1 lb	25.65 lb	-	7.84 lb
Bioreactor 2	1 lb	15.45 lb	-	5.39 lb
Bioreactor 3	1 lb	13.45 lb	-	4.14 lb
Galley 1	5 lb	82.5 lb	8,250 gal	16 lb
Galley 2	5 lb	122.5 lb	12,250 gal	24.5 lb
CoGen	Not Added	Not Added	980 oz	Not Added

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 6: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA

	REMEDIAL ADDITIVE TOTALS – 2006			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-5S	-	-	-	-
Injection Well IW-5D	-	-	-	-
Injection Well IW-6	-	-	-	-
Injection Well IW-7	-	-	-	-
Bioreactor 1	-	-	-	-
Bioreactor 2	-	-	-	-
Bioreactor 3	-	-	-	-
Recovery Trench	-	5 lb	500 gal	1 lb
CoGen	-	-	32 oz	-

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 6: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA

	REMEDIAL ADDITIVE TOTALS – 2007			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-5S	Not Added	Not Added	Not Added	Not Added
Injection Well IW-5D	Not Added	Not Added	Not Added	Not Added
Injection Well IW-6	Not Added	Not Added	Not Added	Not Added
Injection Well IW-7	Not Added	Not Added	Not Added	Not Added
Bioreactor 1	Not Added	2.3 lb	Not Added	2.3 lb
Bioreactor 2	Not Added	1.8 lb	Not Added	1.8 lb
Bioreactor 3	Not Added	1.8 lb	Not Added	1.8 lb
Recovery Trench	Not Added	Not Added	Not Added	Not Added
CoGen	Not Added	Not Added	490 oz	Not Added

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 6: REMEDIAL ADDITIVES LOG – OFFSITE GROUNDWATER TREATMENT SYSTEM – GARAGE & ABANDONED FIELD ROAD AREA

	CUMULATIVE REMEDIAL ADDITIVE TOTALS – 2005-2007			
Location	**MicroSorb S.C.**	**MicroSorb D.C.**	**Biocatalyst Activator**	**MicroSorb Nutrients**
Injection Well IW-5S	Not Added	Not Added	Not Added	Not Added
Injection Well IW-5D	Not Added	Not Added	Not Added	Not Added
Injection Well IW-6	Not Added	Not Added	Not Added	Not Added
Injection Well IW-7	Not Added	Not Added	Not Added	Not Added
Bioreactor 1	Not Added	2.3 lb	Not Added	2.3 lb
Bioreactor 2	Not Added	1.8 lb	Not Added	1.8 lb
Bioreactor 3	Not Added	1.8 lb	Not Added	1.8 lb
Recovery Trench	Not Added	5 lb	500 gal	1 lb
CoGen	Not Added	Not Added	522 oz	Not Added

MicroSorb S.C. = Super Concentrate
MicroSorb D.C. = Dechlorinator

TABLE 7: GROUNDWATER GAUGING – LNAPL/DNAPL RECOVERY SUMMARY – MONITOR WELL WMW – 6 (ONSITE WAREHOUSE)

Date	Depth to LNAPL	Depth to Grwater (ft)	~Ft/in NAPL	NAPL Recovered (gallons)	NAPL Recovery Method	Additional Response Actions	Waste Management
05.04.07	3.33	3.48	0.15/1.80	0.03	PeriPump	None	Store in labeled container
05.11.07	0.00	4.16↓	0.00	No recovery	N/A	None	N/A
05.25.07	0.00	3.79↑	0.00	No recovery	N/A	None	N/A
06.08.07	0.00	4.03↓	0.00	No recovery	N/A	None	N/A
09.12.07	6.84	7.41↓	0.57/6.87↑	No recovery	N/A	None	N/A
				∑ = 0.03			

TABLE 7: GROUNDWATER GAUGING – LNAPL/DNAPL RECOVERY SUMMARY – MONITOR WELL RW - 3 (ONSITE WAREHOUSE)

Date	Depth to LNAPL	Depth to Grwater (ft)	~Ft/in NAPL	NAPL Recovered (gallons)	NAPL Recovery Method	Additional Response Actions	Waste Management
05.04.07	14.32	14.48	0.16/1.92	0.17	PeriPump	None	Store in labeled container
05.11.07	15.25↓	14.41↓	0.16/1.92	0.25	PeriPump	None	Store in labeled container
05.18.07	15.41↓	15.61↓	0.20/2.40↑	No recovery	N/A	None	N/A
05.25.07	16.31↑	16.80↑	0.49/5.55↑	0.77	PeriPump	None	Store in labeled container
06.01.07	17.20↓	14.41↓	0.21/2.52↓	0.36	PeriPump	None	Store in labeled container
06.08.07	16.19↑	16.44↑	0.25/3.00↑	0.33	PeriPump	None	Store in labeled container
06.15.07	16.91↓	17.04↓	0.13/1.56↓	No recovery	N/A	None	N/A
06.28.07	17.71↓	17.74↓	0.03/0.36↓	No recovery	N/A	None	N/A
07.20.07	17.49↑	17.53↑	0.04/0.48↑	No recovery	N/A	None	N/A
08.01.07	15.67↑	15.72↑	0.05/0.60↑	No recovery	N/A	None	N/A
08.24.07	0.00↓	37.85↓	0.00	No recovery	N/A	None	N/A
08.31.07	0.00	23.58↑	0.00	No recovery	N/A	None	N/A
09.07.07	0.00	25.83↓	0.00	No recovery	N/A	None	N/A
09.21.07	0.00	27.24↓	0.00	No recovery	N/A	None	N/A
09.28.07	0.00	26.64↑	0.00	No recovery	N/A	None	N/A
11.14.07	0.00	37.70↓	0.00	No recovery	N/A	None	N/A
				∑ = 1.88			

TABLE 7: GROUNDWATER GAUGING – LNAPL/DNAPL RECOVERY SUMMARY – MONITOR WELL RW - 4 (ONSITE WAREHOUSE)

Date	Depth to LNAPL	Depth to Grwater (ft)	–Ft/in NAPL	NAPL Recovered (gallons)	NAPL Recovery Method	Additional Response Actions	Waste Management
05.11.07	6.03	6.68	0.65/7.80	0.94	PeriPump	None	Store in labeled container
05.18.07	6.97↓	7.01↓	0.04/0.48↓	No recovery	N/A	None	N/A
05.25.07	7.03↓	7.11↓	0.08/0.96↑	0.17	PeriPump	None	Store in labeled container
06.01.07	7.79↓	7.81↓	0.02/0.24↓	No recovery	N/A	None	N/A
06.08.07	8.17↓	8.18↓	0.01/0.12↓	No recovery	N/A	None	N/A
06.15.07	8.18↓	8.31↓	0.13/1.56↑	No recovery	N/A	None	N/A
06.28.07	8.85↓	8.93↓	0.08/0.96↓	0.18	PeriPump	None	Store in labeled container
07.20.07	10.21↓	10.35↓	0.14/1.68↑	0.30	PeriPump	None	Store in labeled container
08.01.07	5.41↑	5.48↑	0.07/0.84↓	No recovery	N/A	None	N/A
08.24.07	11.47↓	11.65↓	0.18/2.16↑	No recovery	N/A	None	N/A
08.31.07	11.78↓	12.00↓	0.22/2.64↑	0.37	PeriPump	None	Store in labeled container
09.07.07	11.17↑	11.21↑	0.04/0.48↓	No recovery	N/A	None	N/A
09.21.07	10.22↓	10.35↓	0.13/1.65↑	No recovery	N/A	None	N/A
09.28.07	10.15↓	10.50↓	0.35/4.20↑	No recovery	N/A	None	N/A
11.02.07	5.40↓	5.64↓	0.24/2.89↓	0.37	PeriPump	None	Store in labeled container
11.14.07	0.00	5.64	0.00	No recovery	N/A	None	N/A
				$\sum = 2.33$			

TABLE 7: GROUNDWATER GAUGING – LNAPL/DNAPL RECOVERY SUMMARY – MONITOR WELL WMW – 8D (OFFSITE GARAGE)

Date	Depth to DNAPL	Depth to Grwater (ft)	~Ft/in NAPL	NAPL Recovered (gallons)	NAPL Recovery Method	Additional Response Actions	Waste Management
05.04.07	52.50	2.37	Trace	No recovery	N/A	None	N/A
05.11.07	0.00	2.81↓	Globules	No recovery	N/A	None	N/A
05.25.07	0.00	2.48↑	Globules	No recovery	N/A	None	N/A
06.01.07	51.31	2.71↓	0.19/2.28↑	No recovery	N/A	None	N/A
06.08.07	51.25↑	2.75↓	1.25/15.00↑	0.51	PeriPump	None	Store in labeled container
06.15.07	52.39↓	2.88↓	0.11/1.32↓	No recovery	N/A	None	N/A
07.20.07	51.79↑	3.84↑	0.71/8.52↑	No recovery	N/A	None	N/A
07.31.07	51.72↓	3.73↓	0.78/9.36↑	No recovery	N/A	None	N/A
08.03.07	51.51↑	3.97↑	0.99/11.88↑	0.48	PeriPump	None	Store in labeled container
08.24.07	0.00↓	4.21↑	0.00	No recovery	N/A	None	N/A
08.31.07	0.00	4.52↑	0.00	No recovery	N/A	None	N/A
09.07.07	0.00	4.66↑	0.00	No recovery	N/A	None	N/A
09.14.07	0.00	4.25↓	0.00	No recovery	N/A	None	N/A
09.21.07	0.00	4.65↑	0.00	No recovery	N/A	None	N/A
09.28.07	52.15↑	4.69↑	Trace	No recovery	N/A	None	N/A
10.03.07	52.16↑	4.60↓	0.34/0.41↑	No recovery	N/A	None	N/A
10.19.07	51.89↑	4.90↑	0.61/7.35↑	No recovery	N/A	None	N/A
11.02.07	51.70↓	4.64↓	0.80/9.64↑	No recovery	N/A	None	N/A
				$\sum$ = 0.99			

TABLE 7: RECORD OF LNAPL RECOVERY

Date	Daily Total LNAPL/DNAPL Recovered (gallons)	Cumulative LNAPL/DNAPL Total Recovered (gallons)	LNAPL Recovered From	DNAPL Recovered From
05.04.07	0.20/0.00	0.20/0.00	WMW-6, RW-3	No Recovery
05.11.07	1.19/0.00	1.39/0.00	WMW-6, RW-3	No Recovery
05.25.07	0.94/0.00	2.33/0.00	RW-3, RW-4	No Recovery
06.01.07	0.36/0.00	2.69/0.00	RW-3	No Recovery
06.08.07	0.33/0.51	3.02/0.51	RW-3	WMW-8D
06.28.07	0.18/0.00	3.20/0.51	RW-4	No Recovery
07.20.07	0.30/0.00	3.50/0.51	RW-4	No Recovery
08.03.07	0.00/0.48	3.50/0.99	No Recovery	WMW-8D
08.31.07	0.37/0.00	3.87/0.99	RW-4	No Recovery
11.02.07	0.37/0.00	4.24/0.99	RW-4	No Recovery

Notes:

(1) NAPL recovered includes LNAPL or DNAPL + groundwater
(2) Inches = ft/0.083
(3) (1'=12") (.833'=10") (.66'=8") (.5'=6") (.417'=5") (.33'=4") (.25'=3") (.166'=2") (.083'=1") (.0625'= 0.75"=3/4") (.042'=0.5"=1/2") (.021'= 0.25"=1/4") (.010'= 0.125"=1/8")

Liters = milliliters/1000 Gallons = liters/3.785 ↑ = Increase ↓ = Decrease NM = Not Measured

No LNAPL/DNAPL recovery from Onsite Recovery Wells RW – 1 or RW - 2 during 2007

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ – 2 (Total Depth = 69 feet/Screened Interval = 62-69 feet [silt]) - Groundwater Category GW-3
Onsite – Area 1 – Warehouse

				Sample Date										
Analyte ↓	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005** [1]	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	< 1.0	< 1.0	< 0.5	< 0.5	<0.5	<0.5	Not Tested	<2.5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	< 1.0	< 1.0	< 0.5	< 0.5	<0.5	<0.5	Not Tested	<2.5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	< 2.5	< 2.5	<5	Not Tested	7 ↑	<5	Not Tested	<25			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	< 5.0	< 5.0	<10	<10	<10	<10	Not Tested	<50			Acetone
1,1-Dichloroethane	7	80	30,000	< 0.50	11 ↑	0.8 ↓	<0.5 ↓	<0.5	<0.5	Not Tested	4 ↑			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	< 5.0	8.9 ↑	<2.5	<2.5	<2.5	<2.5	Not Tested	<13			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	< 1.0	< 1.0	<0.5	<0.5	<0.5	<0.5	Not Tested	<2.5			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	< 0.75	< 0.75	<0.5	<0.5	<0.5	<0.5	Not Tested	<2.5			trans-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	< 0.75	< 0.75	<0.5	<0.5	<0.5	<0.5	Not Tested	<2.5			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	< 0.50	18 ↑	5 ↓	1 ↓	2 ↑	<0.5	Not Tested	43 ↑			cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	< 0.50	70 ↑	6 ↓	10 ↑	<0.5 ↓	<0.5	Not Tested	38 ↑			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	3.5	> 100 ↑	9 ↓	6 ↓	3 ↓	<0.5	Not Tested	20 ↑			Trichloroethene
Toluene	1,000	8,000	4,000	< 0.75	0.81 ↑	<0.5 ↓	2 ↑	<0.5 ↓	<0.5	Not Tested	<2.5			Toluene
Tetrachloroethene	5	50	30,000	16	> 100 ↑	21 ↓	28 ↑	27 ↓	<0.5	Not Tested	52 ↑			Tetrachloroethene
Xylenes	10,000	9,000	500	< 0.50	< 0.50	<0.5	0.6 ↑	<0.5 ↓	<0.5	Not Tested	<2.5			Xylenes
Total VOCs				*19.5*	*> 308.71 ↓*	*41.8 ↓* [86.4%]	*47.6 ↑*	*38 ↓* [20.17%]	*Not Detected ↓* [<100%]	-	*157 ↑*			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
RMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript in total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ – 5S (Total Depth = 18 feet/Screened Interval = 2.5-17.5 feet (fill & silt)) - Groundwater Category GW-3
Onsite – Area 1 – Warehouse

				Sample Date										
Analyte ↓	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005 [1]**	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<1.0	<1.0	<1	<0.5	<1	<0.5	<0.5	<0.5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<1.0	<1.0	<1	<0.5	<1	<0.5	<0.5	<0.5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<2.5	<2.5	<10	Not Tested	<10	0.6 J	<5 J	<5			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<5.0	<5.0	<20	<10	<20	<10	<10	<10			Acetone
1,1-Dichloroethene	7	80	30,000	<0.50	1.8 ↑	2 ↑	<0.5 ↓	<1	<0.5	<0.5	<0.5			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	<5.0	<5.0	<5	<2.5	<5	<2.5	<2.5	<3			Methylene Chloride
Methyl tert Butyl Ether	70	50,000	50,000	<1.0	<1.0	<1	<0.5	<1	<0.5	<0.5	<0.5			Methyl tert-Butyl Ether
trans-1,2 Dichloroethene	100	90	50,000	<0.75	<0.75	<1	<0.5	<1	<0.5	<0.5	<0.5			*trans*-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	1.8	4.1 ↑	3 ↑	<0.5 ↓	<1	<0.5	0.5 ↑	<0.5 ↓			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	6.5	18 ↑	13 ↑	2 ↓	<1 ↓	<0.5	3 ↑	<0.5 ↓			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	<0.50	5.3 ↑	10 ↑	5 ↓	<1 ↓	0.7 ↑	1 ↑	<0.5 ↓			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	6.4	27 ↑	27	5 ↓	7 ↑	12 ↑	6 ↓	<0.5 ↓			Trichloroethene
Toluene	1,000	8,000	4,000	<0.75	<0.75	<1	<0.5	<1	<0.5	<0.5	<0.5			Toluene
Tetrachloroethene	5	50	30,000	<0.50	13 ↑	39 ↑	15 ↓	31 ↑	42 ↑	25 ↓	<0.5 ↓			Tetrachloroethene
Xylenes	10,000	9,000	500	<0.50	<0.50	<1	<0.5	<1	<0.5	<0.5	<0.5			Xylenes
Total VOCs				*14.7*	*69.2* ↑	*94* ↑	*27* ↓ [71.0%]	*38* ↑	*55.3* ↑	*35.5* ↓ [35.8%]	*Not Detected* [100%]			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC13 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC10 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ – 6 (Total Depth = 22 feet/Screened Interval = 10.0-20.0 feet [sand]) - Groundwater Category GW-2
Onsite – Area 1 – Warehouse

				Sample Date										
Analyte ↓	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	July 2004	December 2004	June 2005	October 2005 [1]	March 2006	August 2006	February - March 2007	November 2007			Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<0.5	<5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<0.5	<5			Chloroethane
1,1,2 Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	7	<50 J			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<10	<100			Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	2	15 J			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5	<25			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<0.5	<5			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<0.5	<5			trans-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<0.5	<5			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**20**	**260** [1]			cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	30	190 [1]			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	19	**96** [1]			Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<0.5	<5			Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	34	75 [1]			Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<0.5	<5			Xylenes
Total VOCs				Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	*112*	636 [1]			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
'<' = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ – 7 (Total Depth = 43 feet/Screened Interval = 38-43 feet [tiff]) - Groundwater Category GW-3
Onsite – Area 1 – Warehouse

				Sample Data										
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005 [1]**	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<1.0	<1.0	<0.5	<2.5	<0.5	<2.5	<10	<25			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<1.0	<1.0	<0.5	<2.5	<0.5	<2.5	<10	<25			Chloroethane
1,1,2-Trichlorotrifluoromethane	NAS	NAS	NAS	<2.5	<2.5	<5	Not Tested	<5	<5	<100	<50			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<5.0	<5.0	<10	<50	<10	<50	<200	<500			Acetone
1,1-Dichloroethene	7	80	30,000	<0.50	<0.50	1	<2.5 ↓	<0.5	<2.5	16 ↑	<25 ↓			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	<5.0	<5.0	<2.5	<13	<2.5	<13	<50	<130			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	**6.4**	**5.4** ↓	**2** ↓	**3** ↑	**0.7** ↓	<2.5 ↓	<10	<25			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	80	50,000	<0.75	<0.75	<0.5	<2.5	<0.5	<2.5	<10	<25			*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	<0.75	<0.75	<0.5	<2.5	<0.5	<2.5	14 ↑	<25 ↓			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	<0.50	**0.5**	3 ↑	**6** ↑	**0.5** ↓	**9** ↑	**950** ↑	**1,100** ↑			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	<0.50	**2.5**	6 ↑	**42** ↑	< 0.5 ↓	**12** ↑	**640** ↑	**780** ↑			1,1,1-Trichloroethane
Trichloroethene	5	70	5,000	<0.50	**5.4**	**15** ↑	**27** ↑	**0.9** ↓	**29** ↑	**250** ↑	**290** ↑			Trichloroethene
Toluene	1,000	8,000	4,000	<0.75	<0.75	<0.5	<2.5	<0.5	<2.5	<10	<25			Toluene
Tetrachloroethene	5	50	30,000	<0.50	**12**	**26** ↑	**15** ↓	**0.6** ↓	**210** ↑	**130** ↓	**280** ↑			Tetrachloroethene
Xylenes	10,000	9,000	500	<0.50	**0.7** ↑	<0.5 ↓	<2.5	<0.5	<2.5	<10	<25			Xylenes
Isopropylbenzene	NAS	NAS	NAS	<0.50	**3.7** ↑	<0.5 ↓	<2.5	<0.5	<2.5	<10	<25			Isopropylbenzene
Total VOCs				**6.4**	**30.2** ↑	**53.0** ↑	**93.0** ↑	**2.7** ↓ [97%]	**260** ↑	**2,000** ↑	**2,450** ↑			*Total VOCs*
Petroleum Hydrocarbons	4,000	1,000	20,000											**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	200	50,000	10,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics				Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics
	2	2	50,000											

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"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ – 7R (Total Depth = 97 feet/Screened Interval = 92-97 feet [bedrock]) - Groundwater Category GW-3
Onsite – Area 1 – Warehouse

				Sample Date										
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005 [1]**	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<1.0	<1.0	<1	<2.5	< 0.5	<2.5	<0.5	<5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<1.0	<1.0	<1	<2.5	< 0.5	<2.5	<0.5	<5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<2.5	<2.5	<10	Not Tested	<5	<25	<5	<50			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<5.0	<5.0	<20	<50	<10	<50	<10	<100			Acetone
1,1-Dichloroethene	7	80	30,000	<0.50	<0.50	<1	**4** J	< 0.5 J	<2.5	**0.9** J	**18** J			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	<5.0	<5.0	<5	<13	<2.5	<13	<2.5	<25			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	<1.0	<1.0	<1	**3** J	<0.5 J	<2.5	<0.5	<5			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	<0.75	<0.75	<1	<2.5	<0.5	<2.5	<0.5	<5			*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	<0.75	<0.75	<1	<2.5	<0.5	<2.5	**0.6** J	<5 J			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	<0.50	<0.50	**3** J	**9** J	<0.5 J	<2.5	**6** J	**140** J			cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	<0.50	**2.1** J	**5** J	**63** J	< 0.5 J	**9** J	**11** J	**170** J			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	<0.50	**4.0** J	**10** J	**40** J	<0.5 J	**20** J	**11** J	**92** J			Trichloroethene
Toluene	1,000	8,000	4,000	<0.75	<0.75	<1	<2.5	<0.5	<2.5	<0.5	<0.5			Toluene
Tetrachloroethene	5	50	30,000	<0.50	**11** J	**20** J	**20**	<0.5 J	**180** J	**45** J	**410** J			Tetrachloroethene
Xylenes	10,000	9,000	500	<0.50	<0.50	<1	<2.5	<0.5	<2.5	<0.5	<0.5			Xylenes
Total VOCs				*Not Detected*	*17.1*	*38* J	*139.0* J	*Not Detected*	*209* J	*74.5* J [64.36%]	*830* J			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
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"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ – 145 (Total Depth = 25.3 feet/Screened Interval = 14.8-24.8 feet [sand]) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte [1]	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	July 2004	December 2004	June 2005	October 2005	March 2006	August 2006 [2]	February - March 2007	November 2007			Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<1.0	<1.0	<2.5	<2.5	<1	<1	<0.5	<0.5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<1.0	<1.0	<2.5	<2.5	<1	<1	<0.5	<0.5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<2.5	<2.5	<25	Not Tested	<10	<10	<5	<5			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<5.0	<5.0	<50	<50	<20	<20	<10	<10			Acetone
1,1-Dichloroethene	7	80	10,000	<0.50	1.4 ↑	<2.5 ↓	<2.5	<1	<1	0.9 ↑	2 ↑			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	<5.0	<5.0	<13	<13	<5	<5	<2.5	<2.5			Methylene Chloride
Methyl tert Butyl Ether	70	50,000	50,000	<1.0	<1.0	<2.5	<2.5	<1	<1	<0.5	<0.5			Methyl tert Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	<0.75	<0.75	<2.5	<2.5	<1	<1	<0.5	<0.5			*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	<0.75	<0.75	<2.5	<2.5	<1	<1	0.5 ↑	<0.5 ↓			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	0.7	0.69 ↓	<2.5 ↓	<2.5	<1	<1	3 ↑	<0.5 ↓			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	2.8	3.7 ↑	8 ↑	3 ↓	3	3	4 ↑	3 ↓			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	10	34 ↑	52 ↑	36 ↓	24 ↓	31 ↑	17 ↓	48 ↑			Trichloroethene
Toluene	1,000	8,000	4,000	<0.75	<0.75	<2.5	<2.5	<1	<1	<0.5	<0.5			Toluene
Tetrachloroethene	5	50	30,000	5	64 ↑	180 ↑	87 ↓	52 ↓	64 ↑	31 ↓	120 ↑			Tetrachloroethene
Xylenes	10,000	9,000	500	<0.50	<0.50	<2.5	<2.5	<1	<1	<0.5	<0.5			Xylenes
Total VOCs				*18.5*	*103.79* ↓	*240.0* ↑	*126.0* ↓ [47.5%]	*79* ↓ [37.31%]	*98* ↑	*56.4* ↓ [-42.85%]	*173* ↑			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[2] Sample obtained prior to treatment system operation start-up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ(A) – 14M (Total Depth = 79 feet/Screened Interval = 67-77 feet (sand & till)) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte ↓	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005**	**March 2006**	**August 2006** [3]	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<200	<200	<100	<100	<250	<250	<250	<250			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<200	<200	<100	<100	<250	<250	<250	<250			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<500	<500	<1,000	<1,000	<2,500	<2,500	<2,500	<2,500			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<1,000	<1,000	<2,000	<2,000	<5,000	<5,000	<5,000	<5,000			Acetone
1,1-Dichloroethene	7	80	30,000	**500**	**490** ↓	**580** ↑	**480** ↓	**630** ↑	**570** ↓	**580** ↑	**300** ↓			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	<1,000	<1,000	<100	<100	<1,300	<1,300	<1,300	<1,300			Methylene Chloride
Methyl tert Butyl Ether	70	50,000	50,000	<200	<200	<100	<100	<250	<250	<250	<250			Methyl tert-Butyl Ether
trans-1,2 Dichloroethene	100	90	50,000	<150	<150	<100	<100	<250	<250	<250	<250			trans-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	**580**	**550** ↓	**540** ↓	**490** ↓	**600** ↑	**580** ↓	**580** ↓	**470** ↓			1,1-Dichloroethane
cis-1,2 Dichloroethene	70	100	50,000	<100	<100	<100	<100	<250	<250	<250	<250			cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	**590**	**510** ↓	**540** ↑	**500** ↓	**600** ↑	**610** ↑	**530** ↓	**300** ↓			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	**5,400**	**4,500** ↓	**5,500** ↑	**4,800** ↓	**5,500** *	**5,500**	**5,300** ↓	**3,300** ↓			Trichloroethene
Toluene	1,000	8,000	4,000	<150	<150	<100	<100	<250	<250	<250	<250			Toluene
Tetrachloroethene	5	50	30,000	**9,700**	**7,700** ↓	**13,000** ↑	**9,400** ↓	**11,000** ↑	**11,000**	**12,000** ↑	**5,900** ↓			Tetrachloroethene
Xylenes	10,000	9,000	500	<100	<100	<100	<100	<250	<250	<250	<250			Xylenes
Total VOCs				***16,770***	***13,850*** ↓ [17.4%]	***20,140*** ↑	***15,670*** ↓ [22%]	***18,330*** ↑	***18,260*** ↓ [0.39%]	***18,970*** ↑	***10,270*** ↓ [-46.8%]			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
'<' = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[3] Sample obtained prior to treatment system operation start up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ(A) – 15S (Total Depth = 14 feet/Screened Interval = 4-14 feet [sand]) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte ↓	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	July 2004	December 2004	June 2005	October 2005	March 2006	August 2006 [2]	February - March 2007	November 2007			Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	1 ↑	<0.5 ↓			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<2.5	<2.5	<10.0	Not Tested	<5	<5	<5	<5			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<5.0	<5.0	<20.0	<10	<10	<10	<10	<10			Acetone
1,1-Dichloroethene	7	80	30,000	<0.50	<0.50	<1.0	<0.5	<0.5	<0.5	1 ↑	<0.5 ↓			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	<5.0	<5.0	<5.0	<2.5	<2.5	<2.5	<2.5	<3			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			Methyl tert-Butyl Ether
trans-1,2 Dichloroethene	100	90	50,000	<0.75	<0.75	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	**2.9**	<0.75 ↓	<1.0	<0.5	<0.5	<0.5 ↓	2 ↑	<0.5 ↓			1,1-Dichloroethane
cis-1,2 Dichloroethene	70	100	50,000	<0.50	<0.50	<1.0	<0.5	<0.5	<0.5	12 ↑	<0.5 ↓			cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	**2.4**	<0.50 ↓	<1.0	**4** ↑	**0.6** ↓	<0.5 ↓	**6** ↑	<0.5 ↓			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	**0.94**	<0.50 ↓	<1.0	**2** ↑	<0.5 ↓	<0.5	<0.5	<0.5			Trichloroethene
Toluene	1,000	8,000	4,000	<0.75	<0.75	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			Toluene
Tetrachloroethene	5	50	30,000	**3.5**	<0.50 ↓	<1.0	**9** ↑	<0.5 ↓	<0.5	<0.5	<0.5			Tetrachloroethene
Xylenes	10,000	9,000	500	<0.50	<0.50	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			Xylenes
Total VOCs				***9.74***	***Not Detected*** ↓ [100%]	***Not Detected*** ↓ [100%]	***15.0*** ↑	***2.6*** ↓ [83.0%]	***Not Detected*** [100%]	***22*** ↑	***Not Detected*** [100%]			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[2] Sample obtained prior to treatment system operation start-up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ(A) – 15D (Total Depth = 34 feet/Screened Interval = 19-34 feet [till]) - Groundwater Category GW-3
Offsite - Area 2 - Garage

Analyte ↓	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	Sample Date: July 2004	December 2004	June 2005	October 2005	March 2006	August 2006[2]	February - March 2007	November 2007			Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	1 ↑	<0.5 ↓			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<2.5	<2.5	<10.0	Not Tested	<5	<5	5 ↑	<5 ↓			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<5.0	<5.0	<20.0	<10	<10	<10	<10	<10			Acetone
1,1-Dichloroethane	7	80	30,000	<0.50	<0.50	<1.0	<0.5	<0.5	<0.5	1 ↑	<0.5 ↓			1,1-Dichloroethane
Methylene Chloride	5	10,000	50,000	<5.0	<5.0	<5.0	<2.5	<2.5	<2.5	<2.5	<3			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	<0.75	<0.75	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			trans-1,2-Dichloroethane
1,1-Dichloroethane	70	1,000	20,000	<0.75	<0.75	<1.0	<0.5	<0.5	<0.5	2 ↑	<0.5 ↓			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	<0.50	<0.50	<1.0	<0.5	<0.5	<0.5	14 ↑	<0.5 ↓			cis-1,2 Dichloroethane
1,1,1-Trichloroethane	200	4,000	20,000	<0.50	<0.50	<1.0	3 ↑	<0.5 ↓	<0.5	7 ↑	<0.5 ↓			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	0.83	<0.50 ↓	<1.0	2 ↑	<0.5 ↓	<0.5	<0.5	<0.5			Trichloroethene
Toluene	1,000	8,000	4,000	<0.75	<0.75	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			Toluene
Tetrachloroethene	5	50	30,000	3.6	<0.50 ↓	<1.0	8 ↑	<0.5 ↓	<0.5	<0.5	<0.5			Tetrachloroethene
Xylenes	10,000	9,000	500	<0.50	<0.50	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5			Xylenes
Total VOCs				*4.43*	*Not Detected ↓ 100%*	*Not Detected*	*13.0*	*Not Detected ↓ 100%*	*Not Detected*	*30 ↑*	*Not Detected ↓ 100%*			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[2] Sample obtained prior to treatment system operation start up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ(A) – 15R (Total Depth = 53 feet/Screened Interval = 48-53 feet [bedrock]) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005**	**March 2006**	**August 2006[2]**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	3 ↑	<0.5 J			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<1	<0.5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<2.5	<2.5	<10.0	Not Tested	<5	<5	11 ↑	<5 J			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<5.0	<5.0	<20.0	<10	<10	<10	<20	<10			Acetone
1,1-Dichloroethene	7	60	30,000	<0.50	<0.50	<1.0	<0.5	<0.5	<0.5	4 ↑	<0.5 J			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	<5.0	<5.0	<5.0	<2.5	<2.5	<2.5	<5	<3			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<1	<0.5			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	<0.75	<0.75	<1.0	<0.5	<0.5	<0.5	<1	<0.5			*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	<0.75	<0.75	<1.0	<0.5	<0.5	<0.5	5 ↑	<0.5 J			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	<0.50	<0.50	<1.0	<0.5	<0.5	<0.5	38 ↑	<0.5 J			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	<0.50	<0.50	<1.0	4 ↑	<0.5 J	<0.5	17 ↑	<0.5 J			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	0.78	<0.50 J	<1.0	3 ↑	<0.5 J	<0.5	<1	<0.5			Trichloroethene
Toluene	1,000	8,000	4,000	<0.75	<0.75	<1.0	<0.5	<0.5	<0.5	<1	<0.5			Toluene
Tetrachloroethene	5	50	30,000	2.8	<0.50 J	<1.0	9 ↑	<0.5 J	<0.5	<1	<0.5			Tetrachloroethene
Xylenes	10,000	9,000	500	<0.50	<0.50	<1.0	<0.5	<0.5	<0.5	<1	<0.5			Xylenes
Total VOCs				*3.58*	***Not Detected*** J [100%]	***Not Detected***	*16.0*	***Not Detected*** J [100%]	***Not Detected***	*78* ↑	***Not Detected*** J [100%]			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	10,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Liter (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[2] Sample obtained prior to treatment system operation start-up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = GZ - 19DD (Total Depth = 54 feet/Screened Interval = 38-48 feet [clayey silt]) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005**	**March 2006**	**August 2006 [2]**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<2,000	<2,000	<500	<1,000	Not Tested	<500	<250	<500			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<2,000	< 2,000	<500	<1,000	Not Tested	<500	<250	<500			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<5,000	<5,000	<5,000	Not Tested	Not Tested	<5,000	<2,500	<5,000			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<10,000	<10,000	<10,000	<20,000	Not Tested	<10,000	<5,000	<10,000			Acetone
1,1-Dichloroethene	7	80	30,000	**5,500**	**6,300** ↑	**4,300** ↓	**4,400** ↑	Not Tested	**4,000** ↓	**1,400** ↓	**2,100** ↑			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	**58,000**	**44,000** ↓	**25,000** ↓	**38,000** ↑	Not Tested	**23,000** ↓	<1,300 ↓	**22,000** ↑			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	<2,000	<2,000	<500	<1,000	Not Tested	<500	<250	<500			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	<1,500	<1,500	<500	<1,000	Not Tested	<500	<250	<500			trans-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	<1,500	<1,500	**710** ↑	<1,000 ↓	Not Tested	**630**	**650** ↑	**1,200** ↑			1,1-Dichloroethane
cis-1,2 Dichloroethene	70	100	50,000	**10,000**	**14,000** ↑	**30,000** ↑	**17,000** ↓	Not Tested	**29,000** ↑	**8,300** ↓	**30,000** ↑			cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	**45,000**	**39,000** ↓	**16,000** ↓	**29,000** ↑	Not Tested	**25,000** ↓	**6,600** ↓	**7,700** ↑			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	**52,000**	**48,000** ↓	**26,000** ↓	**35,000** ↑	Not Tested	**25,000** ↓	**11,000** ↓	**4,800** ↓			Trichloroethene
Toluene	1,000	8,000	4,000	<1,500	<1,500	<500	<1,000	Not Tested	<500	<250	<500			Toluene
Tetrachloroethene	5	50	30,000	**79,000**	**94,000** ↑	**32,000** ↓	**55,000** ↑	Not Tested	**30,000** ↓	**24,000** ↓	**32,000** ↑			Tetrachloroethene
Xylenes	10,000	9,000	500	<1,000	<1,000	<500	<1,000	Not Tested	<500	<250	<500			Xylenes
Total VOCs				***247,500***	***245,300*** ↓ 0.89%	***134,010*** ↓ -45.37%	***178,400*** ↑	Not Tested	**136,630** ↓ 87.66%	***51,950*** ↓ 87.66%	***99,800*** ↑			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are on micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[2] Sample obtained prior to treatment system operation start-up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = PZ – 1S (Total Depth = Unknown/Screened Interval = Unknown) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte :	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005**	**March 2006**	**August 2006 [1]**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	<1.0	<1.0	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<1.0	<1.0	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<2.5	<2.5	<10.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<5.0	<5.0	<20.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Acetone
1,1-Dichloroethene	7	80	30,000	<0.50	<0.50	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	<5.0	<5.0	<5.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Methylene Chloride
Methyl tert Butyl Ether	70	50,000	50,000	1.5	1.2 J	2.0 J	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	<0.75	<0.75	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			*trans*-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	<0.75	<0.75	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			1,1-Dichloroethane
cis-1,2 Dichloroethene	70	100	50,000	<0.50	<0.50	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	<0.50	<0.50	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	<0.50	<0.50	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Trichloroethene
Toluene	1,000	8,000	4,000	<0.75	<0.75	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Toluene
Tetrachloroethene	5	50	30,000	<0.50	<0.50	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Tetrachloroethene
Xylenes	10,000	9,000	500	<0.50	<0.50	<1.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Xylenes
Total VOCs				1.5	1.2 J [-20%]	2.0 J	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = PZ – 1D (Total Depth = Unknown/Screened Interval = Unknown) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005**	**March 2006**	**August 2006 [1]**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds				Not Tested	Not Tested	Not Tested								**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<25			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<50			Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<13			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			Tetrachloroethene
Xylenes	10,000	5,000	500	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5			Xylenes
Total VOCs				Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	***Not Detected***			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = PZ – 25 (Total Depth = Unknown/Screened Interval = Unknown) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005**	**March 2006**	**August 2006 [2]**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	17	10 ↓	<10 ↓	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	<10	<10	<10	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	<25	<25	<100	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	<50	<50	<200	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Acetone
1,1-Dichloroethene	7	60	30,000	100	39 ↓	55 ↑	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	<50	<50	<50	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Methylene Chloride
Methyl tert Butyl Ether	70	50,000	50,000	<10	<10	<10	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Methyl tert-Butyl Ether
trans 1,2 Dichloroethene	100	90	50,000	<7.5	<7.5	<10	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			trans-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	56	29 ↓	53 ↑	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			1,1-Dichloroethane
cis-1,2 Dichloroethene	70	100	50,000	280	160 ↓	160	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			cis-1,2 Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	<5.0	<5.0	<10	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	440	20 ↓	<10 ↓	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Trichloroethene
Toluene	1,000	8,000	4,000	<7.5	<7.5	<10	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Toluene
Tetrachloroethene	5	50	30,000	41	3.8 ↓	<10 ↓	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Tetrachloroethene
Xylenes	10,000	9,000	500	<5.0	<5.0	<10	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Xylenes
Total VOCs				934	261.8 ↓ [-72%]	268.0 ↑	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[2] Sample obtained prior to treatment system operation start-up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = MMW – 1S (Total Depth = 40 feet/Screened Interval = 5-40 feet) - Groundwater Category GW-3
Onelia – Area 1 – Warehouse

				Sample Date										
Analyte ↓	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005 [1]**	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	<0.5	Not Tested	<10	<0.5	<5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	Not Tested	<10	<0.5	<5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<100	<5	<50			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	<10	Not Tested	<200	<10	<100			Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	<0.5	Not Tested	<10	<0.5	<5			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	<2.5	Not Tested	<52	<2.5	<25			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	<0.5	Not Tested	<10	<0.5	<5			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	**0.8**	Not Tested	<10 ↓	<0.5	<5			*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	<0.5	Not Tested	<10	<0.5	<5			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	<0.5	Not Tested	<10	**2** ↑	<5 ↓			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	**8**	Not Tested	**49** ↑	**1** ↓	<5 ↓			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	**5**	Not Tested	**86** ↑	**4** ↓	<5 ↓			Trichloroethene
Toluene	1,000	6,000	4,000	Not Tested	Not Tested	Not Tested	<0.5	Not Tested	<10	<0.5	<5			Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	**20**	Not Tested	**740** ↑	**13** ↓	<5 ↓			Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	**0.73**	Not Tested	<10 ↓	<0.5	<5			Xylenes
Total VOCs				Not Tested	Not Tested	Not Tested	***34.53***	Not Tested	***875.0*** ↑	***20*** ↓ [97.72%]	***Not Detected*** ↓ [100%]			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = WMW – 25 (Total Depth = 15 feet/Screened Interval = 5-15 feet) - Groundwater Category GW-2
Onsite – Area 1 – Warehouse

				Sample Data									
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005 [1]**	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	<0.5	<0.5	<10	<0.5	<0.5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	<0.5	<10	1 ↑	<0.5 ↓			Chloroethane
1,1,2 Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	<5	<100	<5	<5			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	<10	<10	<200	<10	<10			Acetone
1,1-Dichloroethene	7	60	30,000	Not Tested	Not Tested	Not Tested	**3**	<0.5 ↓	<10	**3** ↑	**1** ↓			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<52	<2.5	<3			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	<0.5	<0.5	<10	**0.5** ↑	<0.5 ↓			Methyl tert-Butyl Ether
trans 1,2 Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	<0.5	<0.5	<10	<0.5	<0.5			*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	**33**	**0.8** ↓	<10 ↓	**13** ↑	**8** ↓			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	<0.5	<0.5	<10	**2** ↑	<0.5 ↓			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	**82**	**1** ↓	**50** ↑	**38** ↓	**18** ↓			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	**4**	**3** ↓	**50** ↑	**5** ↓	<0.5 ↓			Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	<0.5	<0.5	<10	<0.5	<0.5			Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	**15**	**15**	**540** ↑	**25** ↓	<0.5 ↓			Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	<0.5	<0.5	<10	<0.5	<0.5			Xylenes
1,4-Dichlorobenzene	5	200	8,000	Not Tested	Not Tested	Not Tested	Not Tested	**0.5**	Not Tested	<0.5	<0.5			1,4-Dichlorobenzene
Total VOCs				Not Tested	Not Tested	Not Tested	*137*	*20.3* ↓ -85.19%	*640.0* ↑	*87.5* ↓ -86.33%	*27* ↓ -69.14%			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = WMW – 2D (Total Depth = 45 feet/Screened Interval = 15-45 feet) - Groundwater Category GW-2
Onsite – Area 1 – Warehouse

Analyte	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	Sample Date: July 2004	December 2004	June 2005	October 2005 [1]	March 2006	August 2006	February - March 2007	November 2007			Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	<0.5	<1	<5	<0.5	<0.5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	<1	<5	<0.5	<0.5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	<10	<50	<5	<5			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	<10	<20	<100	<10	<10			Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	<0.5	4 ↓	<5 ↓	<0.5	<0.5			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	<2.5	<5	<50	<2.5	<3			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	<0.5	<1	<5	<0.5	<0.5			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	<0.5	<1	<5	<0.5	<0.5			trans-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	<0.5	21 ↑	<5 ↓	0.7 ↑	0.5 ↓			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	1	<1 ↓	<5	2 ↑	<0.5 ↓			cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	10	75 ↑	18 ↓	2 ↓	0.7 ↓			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	6	1 ↓	32 ↑	5 ↓	<0.5 ↓			Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	0.7	<1 ↓	<5	<0.5	<0.5			Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	20	9 ↓	370 ↑	22 ↓	<0.5 ↓			Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	1	<1 ↓	<5	<0.5	<0.5			Xylenes
Total VOCs				Not Tested	Not Tested	Not Tested	38.7	110.0 ↑	420 ↑	31.7 ↓ 92.5%	1.2 ↓ 96.2%			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are on micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
'<' = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = WMW – 3 (Total Depth = 20 feet/Screened Interval = 10-20 feet) - Groundwater Category GW-3
Onsite – Area 1 – Warehouse

				Sample Date										
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005 [1]**	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<2.5	<0.5	<0.5			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<2.5	<0.5	<0.5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	<25	<25	<5	<5			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	<50	<50	<50	<10	<10			Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<2.5	0.5 J	<0.5 J			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	<13	<13	<13	<2.5	<3			Methylene Chloride
Methyl tert Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<2.5	<0.5	<0.5			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<2.5	<0.5	<0.5			*trans*-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<2.5	1 J	3 J			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	5	19 J	4 J	23 J	17 J			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	42	57 J	14 J	7 J	6 J			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	24	74 J	35 J	6 J	2 J			Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<2.5	<0.5	<0.5			Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	100	220 J	190 J	21 J	3 J			Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	4	<2.5	<2.5	<0.5	19 J			Xylenes
Ethylbenzene	700	30,000	4,000	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<2.5	<0.5	3 J			Ethylbenzene
Diethyl Ether	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<10	<2	<2			Diethyl Ether
Isopropylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5	<0.5	5 J			Isopropylbenzene
n-Propylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5	<0.5	3 J			*n*-Propylbenzene
1,3,5-Trimethylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5	<0.5	3 J			1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5	0.6 J	16 J			1,2,4-Trimethylbenzene
sec-Butylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5	<0.5	0.9 J			sec-Butylbenzene
4-Isopropyltoluene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5	<0.5	0.6 J			4-Isopropyltoluene
1,2-Dichlorobenzene	600	2,000	2,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5	<0.5	<0.5			1,2-Dichlorobenzene
Naphthalene	140	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2.5	<0.5	8 J			Naphthalene
Chloroform				Not Tested	Not Tested	Not Tested	3	19 J	<2.5	0.7 J	<0.5 J			Chloroform
Total VOCs				Not Tested	Not Tested	Not Tested	178.0	389.0 J	243.0 J [72.5%]	59.8 J [75.8%]	90.5 J [73.3%]			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = WMW – 4 (Total Depth = 15 feet/Screened Interval = 5-15 feet) - Groundwater Category GW-3
Onsite – Area 1 – Warehouse

				Sample Date									
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005 [1]**	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**		**Analyte**
Volatile Organic Compounds													**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<250	<500		Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<250	<500		Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	**2,800**	**2,000** ↓	**2,500** ↑	**<5,000** ↓		1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	<2,000	<2,000	<5,000	<10,000		Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	Not Tested	<100	**320** ↑	**1,400** ↑	**1,200** ↓		1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	<500	**4,700** ↑	**2,500** ↓	**<2,500** ↓		Methylene Chloride
Methyl tert Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<250	<500		Methyl tert-Butyl Ether
trans-1,2 Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<250	<500		*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	**150**	**160**	<250 ↓	<500		1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	Not Tested	**9,100**	**8,000** ↓	**14,000** ↑	**29,800** ↑		*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	<100	**530** ↑	**11,000** ↑	**15,000** ↑		1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	Not Tested	**540**	**2,100** ↑	**3,800** ↑	**3,200** ↓		Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<250	<250		Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	Not Tested	**5,300**	**5,900** ↑	**5,400** ↓	**7,900** ↑		Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<250	<250		Xylenes
1,2,4-Trimethylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	**210**	**180** ↓	<250 ↓	<250		1,2,4-Trimethylbenzene
Naphthalene	140	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	**110**	**100** ↓	<250 ↓	<250		Naphthalene
Total VOCs				Not Tested	Not Tested	Not Tested	Not Tested	***18,220***	***24,990*** ↑	**41,600** ↑	**56,300** ↑		*Total VOCs*
Petroleum Hydrocarbons													**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested		EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested		EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested		EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (↓) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = WMW – 5 (Total Depth = 15 feet/Screened Interval = 5-15 feet) - Groundwater Category GW-3
Onsite - Area 1 - Warehouse

				Sample Date									
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005 [1]**	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50 000	Not Tested	Not Tested	Not Tested	<2 5	<500	<500	<250	<250			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<2.5	<500	<500	<250	<250			Chloroethane
1 1 2-Trichlorobifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	<5,000	<2,500	<2,500			1,1,2-Trichloroinfluoroethane
Acetone	3 000	50 000	50 000	Not Tested	Not Tested	Not Tested	<50	<5 000	<10 000	<5,000	<5,000			Acetone
1 1-Di Nitroethene *	7	80	30,000	Not Tested	Not Tested	Not Tested	<2 5	**340 ↓**	**1,700 ↓**	**780 ↓**	**730 ↓**			1 1-Dichloroethene
Methylene Chloride	5	10 000	50 000	Not Tested	Not Tested	Not Tested	<13	<1 300	**5,600 ↓**	<1,300 ↓	<1 300			Methylene Chloride
Methyl tert-Butyl Ether	70	50 000	50 000	Not Tested	Not Tested	Not Tested	<2 5	<500	<500	<250	<250			Methyl tert-Butyl Ether
trans-1 2-Dichloroethene	100	90	50 000	Not Tested	Not Tested	Not Tested	<2 5	<500	<500	<250	<250			*trans*-1,2-Dichloroethene
1,1-Dichloromethane	70	1 000	20 000	Not Tested	Not Tested	Not Tested	<2 5	<500	**600 ↓**	<250	**470 ↓**			1,1-Dichloroethane
cis-1 2-Dichloroethene	70	100	50 000	Not Tested	Not Tested	Not Tested	**63**	**10,000 ↓**	**40,000 ↓**	**15,000 ↓**	**24,000 ↓**			*cis*-1 2-Dichloroethene
1 1 1-Trichloroethane	200	4 000	20 000	Not Tested	Not Tested	Not Tested	**7**	**7,200 ↓**	**23,000 ↓**	**11,000 ↓**	**7,700 ↓**			1,1 1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	**25**	**11,000 ↓**	<500 ↓	**3,700 ↑**	**1,900 ↓**			Trichloroethene
Toluene	1 000	8 000	4 000	Not Tested	Not Tested	Not Tested	<2 5	<500	<500	<250	<250			Toluene
Tetrachloroethene	5	50	30 000	Not Tested	Not Tested	Not Tested	**130**	**11,000 ↓**	<500 ↓	**5,300 ↑**	**1,900 ↓**			Tetrachloroethene
Xylenes	10 000	9 000	500	Not Tested	Not Tested	Not Tested	<2 5	<500	<500	<500	<250			Xylenes
Total VOCs				Not Tested	Not Tested	Not Tested	***225***	***36,540 ↓***	***70,800 ↓***	***35,780 ↓ 49.5%***	***36,700 ↓***			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4 000	1 000	20 000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5 000	NAS	20 000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	10 000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are on micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = WMW – 6 (Total Depth = 40 feet/Screened Interval = 10-40 feet) - Groundwater Category GW-2
Onsite – Area 1 – Warehouse

				Sample Date									
Analyte ↓	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	July 2004	December 2004	June 2005	October 2005 [1]	March 2006	August 2006	February - March 2007	November 2007			Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50 000	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<500	<500	Not Tested			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<500	<500	Not Tested			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	13,000	12,000 ↓	14,000 ↑	Not Tested			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50 000	Not Tested	Not Tested	Not Tested	<20,000	<20,000	<5,000	<10,000	Not Tested			Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	3,700	2,000 ↓	2,400	1,300 ↓	Not Tested			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	<5,000	<5,000	6,600	<2,500	Not Tested			Methylene Chloride
Methyl tert-Butyl Ether	70	50 000	50,000	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<500	<500	Not Tested			Methyl tert-Butyl Ether
trans-1,2 Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<500	<500	Not Tested			trans-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<500	<500	Not Tested			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	28,000	42,000 ↑	32,000 ↓	31,000 ↓	Not Tested			cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	57,000	63,000 ↑	36,000 ↓	38,000 ↑	Not Tested			1,1,1-Trichloroethene
Trichloroethene	5	10	5,000	Not Tested	Not Tested	Not Tested	18,000	4,300 ↓	13,000 ↑	5,800 ↓	Not Tested			Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<500	<500	Not Tested			Toluene
Tetrachloroethene	5	90	30,000	Not Tested	Not Tested	Not Tested	35,000	6,000 ↓	13,000 ↑	11,000 ↓	Not Tested			Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	1,000	<1,000 ↓	<500	<500	Not Tested			Xylenes
1,2 Dichloroethane	5	5	20,000	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<500	2,800	Not Tested			1,2-Dichloroethane
Total VOCs				Not Tested	Not Tested	Not Tested	*142,700*	*130,300 ↓ 8.68%*	*115,000 ↓ 11.8%*	*103,900 ↓ 9.65%*	LNAPL in Well			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20 000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = WMW – 7 (Total Depth = 15 feet/Screened Interval = 5-15 feet) - Groundwater Category GW-2
Onsite – Area 1 – Warehouse

				Sample Date										
Analyte ↓	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005 [1]**	**March 2006**	**August 2006**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	2	0.8	<10 ↓	2 ↑	<5 ↓			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	<0.5	<10	<0.5	<5			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	<5	<100	<5	<50			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	<10	<10	<200	<10	<100			Acetone
1,1-Dichloroethene	7	60	30,000	Not Tested	Not Tested	Not Tested	3	4 ↑	<10 ↓	0.5 ↑	<5 ↓			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	<2.5	<2.5	<52	<2.5	<25			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	<0.5	<0.5	<10	<0.5	<5			Methyl tert-Butyl Ether
trans 1,2 Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	0.7	<0.5 ↓	<10	0.6 ↑	<5 ↓			trans-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	9	4 ↓	<10 ↓	10 ↑	6 ↓			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	4	3 ↓	<10 ↓	7 ↑	<5 ↓			cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	8	<0.5	33 ↑	2 ↓	<5 ↓			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	5	2 ↓	59 ↑	11 ↓	<5 ↓			Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	0.8	0.8	<10 ↓	<0.5	<5			Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	18	10 ↓	570	35 ↓	<5 ↓			Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	5	9 ↑	<10 ↓	1.7 ↑	<5 ↓			Xylenes
Ethylbenzene	700	30,000	4,000	Not Tested	Not Tested	Not Tested	7	<0.5	<10	5 ↑	<5 ↓			Ethylbenzene
Diethyl Ether	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	10 ↑	<10 ↓	8 ↑	<5 ↓			Diethyl Ether
Isopropylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	3 ↑	<10 ↓	1 ↑	<5 ↓			Isopropylbenzene
n-Propylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	4 ↑	<10 ↓	2 ↑	<5 ↓			n-Propylbenzene
1,3,5-Trimethylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	5 ↑	<10 ↓	<0.5	<5			1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	22 ↑	15 ↓	3 ↓	<5 ↓			1,2,4-Trimethylbenzene
sec-Butylbenzene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	1 ↑	<10 ↓	1 ↑	<5 ↓			sec-Butylbenzene
4-Isopropyltoluene	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<0.5	2 ↑	<10 ↓	1 ↑	<5 ↓			4-Isopropyltoluene
1,2-Dichlorobenzene	600	2,000	2,000	Not Tested	Not Tested	Not Tested	<0.5	1 ↑	<10 ↓	2 ↑	<5 ↓			1,2-Dichlorobenzene
Naphthalene	140	1,000	20,000	Not Tested	Not Tested	Not Tested	<0.5	4 ↑	<10 ↓	1 ↑	<5 ↓			Naphthalene
Total VOCs				Not Tested	Not Tested	Not Tested	62.5	85.6 ↑	677.0 ↑	93.8 ↓ 86% RSK	6 ↓ 90% RSK			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in **bold** script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = WMW – 8S (Total Depth = 15 feet/Screened Interval = 5-15 feet) - Groundwater Category GW-3
Offsite – Area 2 - Garage

Analyte ↓	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	Sample Date: July 2004	December 2004	June 2005	October 2005	March 2006	August 2006 [2]	February - March 2007	November 2007			Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<50	7,500 ↑	1,400 ↓			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<50	<1,000	<1,000			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	570	<10,000 ↓	<10,000			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<20,000	<20,000			Acetone
1,1 Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**80**	**2,400** ↑	**2,200** ↓			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<250	<5,000	<5,000			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<50	<1,000	<1,000			Methyl tert-Butyl Ether
trans-1,2 Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<50	<1,000	<1,000			*trans*-1,2-Dichloroethene
1,1 Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<50	**11,000** ↑	<1,000 ↓			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**1,800**	**56,000** ↑	**57,000** ↑			*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**690**	**11,000** ↑	**22,000** ↑			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**2,700**	<1,000 ↓	**1,100** ↑			Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<50	<1,000	<1,000			Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**1,200**	<1,000 ↓	**5,800** ↑			Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<50	<1,000	<1,000			Xylenes
Total VOCs				Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**7,040**	**87,900** ↑	**88,500** ↑			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[2] Sample obtained prior to treatment system operation start up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = WMW – 8D (Total Depth = 55 feet/Screened Interval = 45-55 feet) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005**	**March 2006**	**August 2006 [1]**	**February - March 2007**	**November 2007**			**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	Not Tested	Not Tested			Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	Not Tested	Not Tested			Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<25,000	Not Tested	Not Tested			1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<50,000	Not Tested	Not Tested			Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	Not Tested	Not Tested			1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<13,000	Not Tested	Not Tested			Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	Not Tested	Not Tested			Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	Not Tested	Not Tested			trans-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	Not Tested	Not Tested			1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	Not Tested	Not Tested			cis-1,2-Dichloroethene
1,1,1 Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**22,000**	Not Tested	Not Tested			1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**14,000**	Not Tested	Not Tested			Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	Not Tested	Not Tested			Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**110,000**	Not Tested	Not Tested			Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,500	Not Tested	Not Tested			Xylenes
											Not Tested			
Total VOCs				Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	***146,000***	Not Tested	Not Tested			*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			EPH nC11 - nC22 aromatics
									DNAPL in well	**DNAPL in well**	**DNAPL in well**			

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
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Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[1] Sample obtained prior to treatment system operation start-up (October 17, 2006)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = RW – 1 (Total Depth = 40 feet/Screened Interval = 5-40 feet) – Groundwater Category GW-3
Onsite – Area 1 – Warehouse

				Sample Date											
Analyte [1]	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	July 2004	December 2004	June 2005	November 2005 [2]	March 2006	June 2006	October 2006	December 2006	February - March 2007	November 2007	Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	<50	Not Tested	Not Tested	<250	Not Tested	<250	<500	Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<50	Not Tested	Not Tested	<250	Not Tested	<250	<500	Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<500	Not Tested	Not Tested	<2,500	Not Tested	<2,500	<5,000	1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	<1,000	Not Tested	Not Tested	<5,000	Not Tested	<5,000	<10,000	Acetone
1,1 Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	**60**	Not Tested	Not Tested	**1,500** ↑	Not Tested	**790** ↓	**2,000** ↑	1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	<250	Not Tested	Not Tested	**3,100** ↑	Not Tested	<1,300 ↓	2,500	Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	<50	Not Tested	Not Tested	<250	Not Tested	<250	<500	Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	<50	Not Tested	Not Tested	<250	Not Tested	<250	<500	*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	<50	Not Tested	Not Tested	**410** ↑	Not Tested	<250 ↓	<500	1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	**490**	Not Tested	Not Tested	**26,000** ↑	Not Tested	**12,000** ↓	**27,000** ↑	*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	**290**	Not Tested	Not Tested	**18,000** ↑	Not Tested	**10,000** ↓	**33,000** ↑	1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	**3,500**	Not Tested	Not Tested	**7,300** ↑	Not Tested	**5,100** ↓	**8,300** ↑	Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	<50	Not Tested	Not Tested	<250	Not Tested	<250	<250	Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	**820**	Not Tested	Not Tested	**4,900** ↑	Not Tested	**4,200** ↓	**15,000** ↑	Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	<50	Not Tested	Not Tested	<250	Not Tested	<250	<500	Xylenes
Total VOCs				-	-	-	***5,160***	***Not Operating***	***Not Operating***	***61,210*** ↑	-	***32,090*** ↓ [47 less]	***86,300*** ↑	*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC11 - nC22 aromatics

Results are on micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
'<' = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[1] Sample obtained after treatment system operation start up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = RW - 2 (Total Depth = 40 feet/Screened Interval = 5-40 feet) - Groundwater Category GW-3
Onsite – Area 1 – Warehouse

				Sample Date										
Analyte [1]	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	July 2004	December 2004	June 2005	November 2005 [3]	March 2006	June 2006	October 2006	December 2006	February - March 2007	November 2007	Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	<250	<250	<250	<250	Not Tested	<250	<500	Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<250	<250	<250	<250	Not Tested	<250	<500	Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	4,100	3,700 ↓	<2,500	2,700 ↑	Not Tested	<2,500 ↓	<5,000	1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	<5000	<5000	<5,000	<5,000	Not Tested	<5,000	<10,000	Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	820	750 ↓	530 ↓	1,000 ↑	Not Tested	1,100 ↑	1,100	1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	6,100	6,100	4,300 ↓	5,200 ↑	Not Tested	1,900 ↓	<2,500 ↓	Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	<250	<250	<250	<250	Not Tested	<250	<500	Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	<250	<250	<250	<250	Not Tested	<250	<500	*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	310	<250	320 ↑	340 ↑	Not Tested	300 ↓	<500 ↓	1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	13,000	14,000 ↑	13,000 ↓	23,000 ↑	Not Tested	20,000 ↓	23,000 ↑	cis-1,2-Dichloroethene
1,1,1 Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	9,600	8,800 ↓	7,200 ↓	13,000 ↑	Not Tested	11,000 ↓	12,000 ↑	1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	4,700	6,700 ↑	5,100 ↓	5,900 ↑	Not Tested	4,800 ↓	4,100 ↓	Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	<250	<250	<250	<250	Not Tested	<250	<500	Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	13,000	10,000 ↓	8,000 ↓	8,100 ↑	Not Tested	4,100 ↓	11,000 ↑	Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	<250	<250	<250	<250	Not Tested			Xylenes
Total VOCs				-	-	-	*51,630*	*50,050* ↓ [3.01%]	*38,460* ↓ [25.16%]	*59,240* ↑	-	*43,200* ↓ [27.88%]	*51,200* ↑	*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC11 - nC22 aromatics

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[3] Sample obtained after treatment system operation start up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = RW – 3 (Total Depth = 40 feet/Screened Interval = 5-40 feet) - Groundwater Category GW-3
Onsite – Area 1 – Warehouse

Analyte	MCP GW-1 Risk Standard	MCP GW-2 Risk Standard	MCP GW-3 Risk Standard	Sample Date: July 2004	December 2004	June 2005	November 2005 [1]	March 2006	June 2006	October 2006	December 2006	February - March 2007	November 2007	Analyte
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	Not Tested	<1,000	<1,000	Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	Not Tested	<1,000	<1,000	Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**16,000**	**13,000** ↓	Not Tested	**16,000** ↑	<10,000 ↓	1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<20,000	<20,000	Not Tested	<20,000	<20,000	Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**5,800**	**4,900** ↓	Not Tested	**5,400** ↑	**2,800** ↓	1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**24,000**	**12,000** ↓	Not Tested	**9,900** ↓	<5,000 ↓	Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	Not Tested	<1,000	<1,000	Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	Not Tested	<1,000	<1,000	trans-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	Not Tested	<1,000	<1,000	1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**45,000**	**48,000** ↑	Not Tested	**52,000** ↑	**36,000** ↓	cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**92,000**	**89,000** ↓	Not Tested	**78,000** ↓	**55,000** ↓	1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**38,000**	**28,000** ↓	Not Tested	**19,000** ↓	**12,000** ↓	Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	Not Tested	<1,000	<1,000	Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**32,000**	**35,000** ↑	Not Tested	**30,000** ↓	**24,000** ↓	Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	Not Tested	<1,000	<1,000	Xylenes
Total VOCs				-	-	-	-	-	**255,800**	**227,900** ↓ [10.9%]	-	**202,300** ↓ [11.2%]	**129,800** ↓ [35.8%]	*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC11 - nC22 aromatics

Results are on micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[1] Sample obtained after treatment system operation start up (October 27, 2005)

TABLE 6: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = RW - 4 (Total Depth = 40 feet/Screened Interval = 5-40 feet) - Groundwater Category GW-3
Onsite – Area 1 – Warehouse

				Sample Date										
Analyte ↓	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**November 2005 [1]**	**March 2006**	**June 2006**	**October 2006**	**December 2006**	**February - March 2007**	**November 2007**	**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	270	<500 ↓	<500	<250	Not Tested	250 ↑	Not Tested	Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<250	<500	<500	<250	Not Tested	<250	Not Tested	Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	<2,500	<5,000	<5,000	<2,500	Not Tested	<2,500	Not Tested	1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	<5000	<10,000	<10,000	<5000	Not Tested	<5,000	Not Tested	Acetone
1,1 Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	290	680 ↑	520 ↓	520	Not Tested	560 ↑	Not Tested	1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	<1,300	<2,500	<2,500	<1,300	Not Tested	<1,300	Not Tested	Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	<250	<500	<500	<250	Not Tested	<250	Not Tested	Methyl tert-Butyl Ether
trans 1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	<250	<500	<500	<250	Not Tested	<250	Not Tested	*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	<250	<500	<500	<250	Not Tested	<250	Not Tested	1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	13,000	14,000 ↑	14,000	14,000	Not Tested	15,000 ↑	Not Tested	*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	3,400	16,000 ↑	7,200 ↓	8,900 ↑	Not Tested	5,400 ↓	Not Tested	1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	20,000	32,000 ↑	21,000 ↓	23,000 ↑	Not Tested	17,000 ↓	Not Tested	Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	<250	<500	<500	<250	Not Tested	<250	Not Tested	Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	7,400	34,000 ↑	16,000 ↓	19,000 ↑	Not Tested	11,000 ↓	Not Tested	Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	<250	<500	<500	<250	Not Tested	<250	Not Tested	Xylenes
Total VOCs				-	-	-	*44,360*	*96,680* ↑	*58,720* ↓ (39.27%)	*65,420* ↑	*Not Operating*	*49,210* ↓ (24.79%)	*Not Operating*	*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC11 - nC22 aromatics
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Results are in micrograms per Litre (ug/L) or parts per billion (ppb)
Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction ( ) appears as superscript to total VOC value (where applicable)
[1] Sample obtained after treatment system operation start-up (October 27, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = RW – 3D (Total Depth = 40 feet/Screened Interval = 20-40 feet) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date											
Analyte ↓	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005**	**March 2006**	**June 2006**	**October 2006 [4]**	**December 2006**	**February - March 2007**	**November 2007**	**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<1,000	Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<1,000	Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<10,000	<10,000	<10,000	1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<20,000	<20,000	<20,000	Acetone
1,1 Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**3,300**	**3,100 ↓**	**2,800 ↓**	1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**25,000**	**28,000 ↑**	**19,000 ↓**	Methylene Chloride
Methyl tert Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<1,000	Methyl tert-Butyl Ether
trans-1,2 Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<1,000	trans-1,2-Dichloroethene
1,1-Dichloromethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**1,400**	<1,000 ↓	**1,000 ↑**	1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**12,000**	**11,000 ↓**	**8,000 ↓**	cis-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**7,800**	**8,000 ↑**	**5,800 ↓**	1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**20,000**	**20,000**	**13,000 ↓**	Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<1,000	Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**83,000**	**78,000 ↓**	**43,000 ↓**	Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<1,000	Xylenes
Total VOCs				-	-	-	-	-	-	-	**152,500**	**148,100 ↓ 2.9% ↓**	**92,400 ↓ 37.6% ↓**	*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC11 - nC22 aromatics

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Detectable concentrations appear in bold script
Concentrations exceeding applicable MCP Method 1 risk standards appear shaded
"<" = Less than the Method Detection Limit (MDL) of the analysis (MDL appears adjacent)
BMDL = Below Method Detection Limit
NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[4] Sample obtained after treatment system operation start-up (October 17, 2005)

TABLE 8: ANALYTICAL TEST RESULTS – GROUNDWATER MONITOR WELLS

Well ID = RW – 7 (Total Depth = 40 feet/Screened Interval = 10-40 feet [silty sand & silt]) - Groundwater Category GW-3
Offsite – Area 2 - Garage

				Sample Date										
Analyte	**MCP GW-1 Risk Standard**	**MCP GW-2 Risk Standard**	**MCP GW-3 Risk Standard**	**July 2004**	**December 2004**	**June 2005**	**October 2005**	**March 2006**	**June 2006**	**October 2006 [1]**	**December 2006**	**February - March 2007**	**November 2007**	**Analyte**
Volatile Organic Compounds														**Volatile Organic Compounds**
Vinyl Chloride	2	2	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<100	**930** ↑	**170** ↓	Vinyl Chloride
Chloroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<100	Chloroethane
1,1,2-Trichlorotrifluoroethane	NAS	NAS	NAS	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<1,000	<1,000	<1,000	1,1,2-Trichlorotrifluoroethane
Acetone	3,000	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<2,000	<2,000	<2,000	Acetone
1,1-Dichloroethene	7	80	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**100**	**340** ↑	**210** ↓	1,1-Dichloroethene
Methylene Chloride	5	10,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<500	<500	**670** ↑	Methylene Chloride
Methyl tert-Butyl Ether	70	50,000	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<100	Methyl tert-Butyl Ether
trans-1,2-Dichloroethene	100	90	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<100	*trans*-1,2-Dichloroethene
1,1-Dichloroethane	70	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<100	**930** ↑	**180** ↓	1,1-Dichloroethane
cis-1,2-Dichloroethene	70	100	50,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**1,600**	**7,400** ↑	**4,300** ↓	*cis*-1,2-Dichloroethene
1,1,1-Trichloroethane	200	4,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**810**	**2,900** ↑	**1,900** ↓	1,1,1-Trichloroethane
Trichloroethene	5	30	5,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**2,300**	**2,600** ↑	**1,800** ↓	Trichloroethene
Toluene	1,000	8,000	4,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<100	Toluene
Tetrachloroethene	5	50	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	**5,000**	**6,600** ↑	**4,000**↓	Tetrachloroethene
Xylenes	10,000	9,000	500	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	<100	<100	<100	Xylenes
Total VOCs	-	-	-	-	-	-	-	-	-	-	**9,810**	**21,700** ↑	**13,230**↓ [28% RED]	*Total VOCs*
Petroleum Hydrocarbons														**Petroleum Hydrocarbons**
EPH nC9 - nC18 aliphatics	4,000	1,000	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC9 - nC18 aliphatics
EPH nC19 - nC36 aliphatics	5,000	NAS	20,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC19 - nC36 aliphatics
EPH nC11 - nC22 aromatics	200	50,000	30,000	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	EPH nC11 - nC22 aromatics

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NAS = No Applicable Risk Standard
Percent reduction (-) appears as superscript to total VOC value (where applicable)
[1] Sample obtained after treatment system operation start-up (October 17, 2005)

TABLE 9a: ANALYTICAL TEST RESULTS – ONSITE WAREHOUSE AND YARD TREATMENT SYSTEM

Sample Location	Sample Date	ANALYTE															
		Vinyl Chloride	Chloroethane	Acetone	1,1-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene	Toluene	Tetra-Chloroethene	Xylenes	Naphthalene	1,1,2-Trichloro-trifluoroethane	Total VOCs
Recovery Well No. 1 (RW - 1)	11 16 05	< 50	< 50	< 1,000	60	< 250	< 50	< 50	400	290	3,500	< 50	820	< 50	< 50	<500	5,180
	12 05 05	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	03 02 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	06 15 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	10 04 06	< 250	< 250	< 5,000	1,500	3,100	< 250	410	26,000	18,000	7,300	<250	4,900	<250	<250	< 2,500	61,210
	12 12 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
Recovery Well No. 2 (RW - 2)	11 16 05	< 250	< 250	< 5,000	820	6,100	< 250	310	13,000	9,600	4,700	< 250	13,000	< 250	< 250	4,100	51,630
	12 05 05	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	03 02 06	< 250	< 250	< 5,000	750	6,100	< 250	< 250	14,000	8,800	6,700	< 250	10,000	< 250	< 250	3,700	50,050
	06 15 06	< 250	< 250	< 5,000	530	4,300	< 250	320	13,000	7,200	5,100	< 250	8,000	< 250	< 250	< 2,500	38,450
	10 04 06	< 250	< 250	< 5,000	1,000	5,200	< 250	340	23,000	13,000	5,900	< 250	8,100	< 250	< 250	2,700	59,240
	12 12 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
Recovery Well No. 3 (RW - 3)	11 16 05	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	12 05 05	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	03 02 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	06 15 06	< 1,000	< 1,000	< 20,000	6,800	24,000	< 1,000	< 1,000	45,000	92,000	38,000	< 1,000	32,000	< 1,000	< 1,000	18,000	255,000
	10 04 06	< 1,000	< 1,000	< 20,000	4,900	12,000	< 1,000	< 1,000	48,000	89,000	28,000	< 1,000	35,000	< 1,000	< 1,000	13,000	227,000
	12 12 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
Recovery Well No. 4 (RW - 4)	11 16 05	270	< 250	< 5,000	290	< 1,300	< 250	< 250	13,000	3,400	28,000	< 250	7,400	< 250	< 250	< 2,500	44,360
	12 05 05	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	03 02 06	< 500	< 500	< 10,000	680	< 2,500	< 500	< 500	14,000	16,000	32,000	< 500	34,000	< 500	< 500	< 5,000	96,680
	06 15 06	< 500	< 500	< 10,000	520	< 2,500	< 500	< 500	14,000	7,200	21,000	< 500	18,000	< 500	< 500	< 5,000	58,720
	10 04 06	< 250	< 250	< 5,000	520	< 1,300	< 250	< 250	14,000	8,900	23,000	< 250	19,000	< 250	< 250	< 2,500	65,420
	12 12 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
Bioreactor No. 1 (Bio-1) EFFLUENT	11 16 05	< 100	< 100	< 2,000	370	2,000	< 100	150	8,300	4,000	8,800	< 100	6,600	< 100	< 100	1,500	31,720
	12 05 05	< 250	< 250	< 5,000	430	2,800	< 250	< 250	12,000	5,500	13,000	< 250	8,000	< 250	< 250	<2,500	41,730
	01 02 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	06 15 06	< 500	< 500	< 10,000	2,500	9,700	< 500	< 500	24,000	35,000	22,000	< 500	19,000	< 500	< 500	6,400	118,600
	10 04 06	< 500	< 500	< 10,000	1,700	4,600	< 500	< 500	25,000	28,000	14,000	< 500	17,000	< 500	< 500	< 5,000	90,300
	12 12 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
Bioreactor No. 2 (Bio-2) EFFLUENT	11 16 05	100	< 100	< 2,000	390	2,100	< 250	150	9,000	4,400	9,500	< 250	7,000	< 250	< 250	1,400	34,040
	12 05 05	< 250	< 250	< 5,000	380	2,700	Not Tested	Not Tested	12,000	5,000	12,000	Not Tested	7,300	Not Tested	Not Tested	< 2,500	39,380
	03 02 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	< 500	< 500	Not Tested	Not Tested	Not Tested	< 500	Not Tested	< 500	< 500	Not Tested	-
	06 15 06	< 500	< 500	< 10,000	2,200	8,300	< 500	< 500	22,000	33,000	20,000	< 500	18,000	< 500	< 500	5,200	108,700
	10 04 06	< 500	< 500	< 10,000	1,800	4,700	Not Tested	Not Tested	26,000	29,000	15,000	Not Tested	17,000	Not Tested	Not Tested	< 5,000	93,500
	12 12 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
Bioreactor No. 3 (Bio-3) EFFLUENT	11 16 05	< 100	< 100	< 2,000	320	2,000	< 100	160	8,500	4,000	8,700	< 100	6,500	< 100	< 100	< 1,000	30,180
	12 05 05	< 250	< 250	<5,000	<250	2,500	< 250	< 250	10,000	3,400	9,400	< 250	4,700	< 250	< 250	< 2,500	30,000
	03 02 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	06 15 06	< 500	< 500	< 10,000	2,000	8,100	< 500	< 500	21,000	30,000	19,000	< 500	18,000	< 500	< 500	< 5,000	98,100
	10 04 06	< 500	< 500	< 10,000	1,800	4,900	< 500	< 500	26,000	29,000	16,000	< 500	17,000	< 500	< 500	< 5,000	93,700
	12 12 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
Carbon Vessel No 1 (CV - 1) EFFLUENT	11 16 05	< 100	< 100	< 2,000	270	2,200	< 100	130	7,200	3,200	6,700	< 100	5,000	< 100	< 100	< 1,000	24,700
	12 05 05	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	03 02 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	06 15 06	< 500	< 500	< 10,000	2,400	9,400	< 500	< 500	29,000	43,000	20,000	< 500	8,800	< 500	< 500	< 5,000	112,400
	10 04 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	12 12 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
Carbon Vessel No 2 (CV - 2) EFFLUENT	11 16 05	73	< 50	< 1,000	61	2,400	< 50	53	1,500	750	830	< 50	620	< 50	< 50	< 500	6,287
	12 05 05	< 100	< 100	< 2,000	200	2,700	< 100	< 100	7,800	2,200	5,000	< 100	2,500	< 100	< 100	<1,000	20,400
	01 02 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	06 15 06	< 500	< 500	< 10,000	2,400	9,000	< 500	< 500	23,000	35,000	20,000	< 500	14,000	< 500	< 500	< 5,000	103,400
	10 04 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-
	12 12 06	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	-

Concentrations are in parts per micrograms per liter (ug/L) or parts per billion (ppb) "<" = Method Detection Limit of the analysis Detectable concentrations appear in Bold script Samples were analyzed by Groundwater Analytical

TABLE 9a: ANALYTICAL TEST RESULTS – ONSITE WAREHOUSE AND YARD TREATMENT SYSTEM

Sample Location	Sample Date	ANALYTE: Vinyl Chloride	Chloroethane	Acetone	1,1-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene	Toluene	Tetra-Chloroethene	Xylenes	Naphthalene	1,1,2-Trichloro-trifluoroethane	Total VOCs
Recovery Well No 1 (RW – 1)	03 09 07	<250	<250	<5,000	790	<1,300	<250	<250	12,000	10,000	5,100	<250	4,200	<250	<250	<2,500	32,090
	08 24 07	<250	<250	<5,000	1,100	<1,300	<250	320	23,000	10,000	4,800	<250	3,600	<250	<250	<2,500	42,820
	11 21 07	<500	<500	<10,000	2,000	<2,500	<500	<500	27,000	33,000	8,300	<500	16,000	<500	<500	<5,000	86,300
Recovery Well No 2 (RW – 2)	03 09 07	<250	<250	<5,000	1,100	1,900	<250	300	20,000	11,000	4,800	<250	4,100	<250	<250	<2,500	43,200
	08 24 07	<500	<500	<10,000	1,200	<2,500	<500	<500	22,000	12,000	5,300	<500	6,300	<500	<500	<5,000	46,800
	11 21 07	<500	<500	<10,000	1,100	<2,500	<500	<500	23,000	12,000	4,100	<500	11,000	<500	<500	<5,000	51,200
Recovery Well No 3 (RW – 3)	03 09 07	<1,000	<1,000	<20,000	5,400	9,900	<1,000	<1,000	52,000	70,000	19,000	<1,000	30,000	<1,000	<1,000	16,000	202,300
	08 24 07	<1,000	<1,000	<20,000	4,700	6,900	<1,000	<1,000	55,000	81,000	18,000	<1,000	29,000	<1,000	<1,000	11,000	205,600
	11 21 07	<1,000	<1,000	<20,000	2,800	<5,000	<1,000	<1,000	36,000	55,000	12,000	<1,000	24,000	<1,000	<1,000	<10,000	129,800
Recovery Well No 4 (RW – 4)	03 09 07	250	<250	<5,000	560	<1,300	<250	<250	15,000	5,400	17,000	<250	11,000	<250	<250	<2,500	49,210
	08 24 07	<250	<250	<5,000	930	<1,300	<250	260	23,000	8,400	21,000	<250	11,000	<250	<250	<2,500	64,590
	11 21 07	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	
Bioreactor No 1 (Bio-1) EFFLUENT	03 09 07	<250	<250	<5,000	1,500	3,400	<250	320	22,000	18,000	9,800	<250	10,000	<250	<250	4,000	69,020
	08 24 07	<250	<250	<5,000	1,600	2,600	<250	370	26,000	21,000	11,000	<250	11,000	<250	<250	3,400	76,970
	11 21 07	<500	<500	<10,000	1,700	<2,500	<500	<500	25,000	29,000	7,300	<500	13,000	<500	<500	<5,000	76,000
Bioreactor No 2 (Bio-2) EFFLUENT	03 09 07	<250	<250	<5,000	1,200	2,400	<250	300	19,000	17,000	8,300	<250	9,000	<250	<250	3,500	60,700
	08 24 07	72	<250	<500	1,600	2,600	<250	360	27,000 [2]	25,000 [2]	13,000	120	11,000 [2]	108	34	2,500	83,394 [1]
	11 21 07	<250	<250	<5,000	2,000	2,800	<250	430	28,000 [2]	37,000 [2]	9,100	<250	16,000	<250	<250	4,400	99,730
Bioreactor No 3 (Bio-3) EFFLUENT	03 09 07	<250	<250	<5,000	1,000	2,100	<250	<250	18,000	15,000	7,400	<250	8,200	<250	<250	<2,500	51,700
	08 24 07	<500	<500	<10,000	1,500	<2,500	<500	<500	27,000	21,000	12,000	<500	10,000	<500	<500	<5,000	71,500
	11 21 07	<500	<500	<10,000	1,800	2,500	<500	<500	26,000	32,000	8,000	<500	14,000	<500	<500	<5,000	84,300
Carbon Vessel No 1 (CV – 1) EFFLUENT	03 09 07	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	
	08 24 07	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	
	11 21 07	<500	<500	<10,000	1,800	<2,500	<500	<500	26,000	31,000	7,600	<500	13,000	<500	<500	<5,000	79,400
Carbon Vessel No 2 (CV – 2) EFFLUENT	03 09 07	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
	08 24 07	<500	<500	<10,000	2,100	<2,500	<500	<500	33,000	23,000	2,900	<500	<500	<500	<500	<5,000	61,000
	11 21 07	<500	<500	<10,000	1,400	<2,500	<500	<500	26,000	29,000	9,300	<500	2,200	<500	<500	<5,000	67,900

Concentrations are in parts per micrograms per liter (ug/L) or parts per billion (ppb) "<" = Method Detection Limit of the analysis Detectable concentrations appear in Bold script Samples were analyzed by Groundwater Analytical

1 Re-tested sample includes 37 ppm ethylbenzene and 59 ppm 1,2,4-Trimethylbenzene 2 Sample re-analyzed to bring respective analytes within calibration range of test

TABLE 9b: ANALYTICAL TEST RESULTS - OFFSITE GARAGE/ABANDONED FIELD ROAD AREA TREATMENT SYSTEM

		ANALYTE															
Sample Location	**Sample Date**	**Vinyl Chloride**	**Chloroethane**	**Acetone**	**1,1-Dichloroethene**	**Methylene Chloride**	**trans-1,2-Dichloroethene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**1,1,1-Trichloroethane**	**Trichloroethene**	**Toluene**	**Tetra-Chloroethene**	**Xylenes**	**Naphthalene**	**1,1,2-Trichloro-trifluoroethane**	**Total VOCs**
Recovery Well No 5S (RW - 5S)	11 16 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 05 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	03 02 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	06 15 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	10 04 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 12 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
Recovery Well No 5D (RW - 5D)	11 16 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 05 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	03 02 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	06 15 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	10 04 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 12 06	< 1,000	< 1,000	< 20,000	**3,300**	**25,000**	< 1,000	**1,400**	**12,000**	**7,800**	**20,000**	< 1,000	**83,000**	< 1,000	< 1,000	< 10,000	**152,500**
Recovery Well No 6 (RW - 6)	11 16 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 05 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	03 02 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	06 15 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	10 04 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 12 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
Recovery Well No 7 (RW - 7)	11 16 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 05 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	03 02 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	06 15 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	10 04 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 12 06	< 100	< 100	< 2,000	**100**	< 500	< 100	< 100	**1,600**	**810**	**2,300**	< 100	**5,000**	< 100	< 100	< 1,000	**9,800**
Bioreactor No 1 (Bio-1) EFFLUENT	11 16 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 05 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	03 02 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	06 15 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	10 04 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 12 06	< 500	< 500	< 10,000	**1,100**	**8,500**	< 500	< 500	**5,300**	**2,900**	**7,700**	< 500	**27,000**	< 500	< 500	< 5,000	**52,600**
Bioreactor No 2 (Bio-2) EFFLUENT	11 16 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 05 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	03 02 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	06 15 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	10 04 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 12 06	< 500	< 500	< 10,000	**830**	**8,400**	< 500	**500**	**5,300**	**2,600**	**7,300**	< 500	**25,000**	< 500	< 500	< 5,000	**49,930**
Bioreactor No 3 (Bio-3) EFFLUENT	11 16 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 05 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	03 02 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	06 15 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	10 04 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 12 06	< 250	< 250	< 5,000	**690**	**7,400**	< 250	**400**	**4,600**	**2,000**	**5,800**	< 250	**19,000**	< 250	< 250	< 2,500	**39,890**
Carbon Vessel No 1 (CV - 1) EFFLUENT	11 16 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 05 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	03 02 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	06 15 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	10 04 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 12 06	< 100	< 100	< 2,000	**670**	**4,400**	< 100	**500**	**5,500**	**1,300**	**2,800**	< 100	**5,700**	< 100	< 100	< 1,000	**20,570**
Carbon Vessel No 2 (CV - 2) EFFLUENT	11 16 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 05 05	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	03 02 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	06 15 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	10 04 06	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	Not On Line	-
	12 12 06	**61**	< 2.5	< 50	**10**	**28**	< 2.5	**180**	**150**	< 2.5	< 2.5	< 2.5	**3**	< 2.5	< 2.5	< 25	**282**

Concentrations are in parts per micrograms per liter (ug/L) or parts per billion (ppb) "<" = Method Detection Limit of the analysis Detectable concentrations appear in Bold script Samples were analyzed by Groundwater Analytical

TABLE 9b: ANALYTICAL TEST RESULTS – OFFSITE GARAGE/ABANDONED FIELD ROAD AREA TREATMENT SYSTEM

Sample Location	Sample Date	ANALYTE															
		Vinyl Chloride	Chloroethane	Acetone	1,1-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene	Toluene	Tetra-Chloroethene	Xylenes	Naphthalene	1,1,2-Trichloro-trifluoroethane	Total VOCs
Recovery Well No 5S (RW – 5S)	03 09 07	Not Operating															
	08 24 07	Not Operating															
	11 20 07	Not Operating															
Recovery Well No 5D (RW 5D)	03 09 07	< 1,000	< 1,000	< 20,000	3,100	28,000	< 1,000	< 1,000	11,000	8,000	20,000	< 1,000	78,000	< 1,000	< 1,000	< 10,000	148,100
	08 24 07	< 1,000	< 1,000	< 20,000	2,600	20,000	< 1,000	< 1,000	12,000	7,700	26,000	< 1,000	61,000	< 1,000	< 1,000	< 10,000	131,300
	11 20 07	< 1,000	< 1,000	< 20,000	2,600	19,000	< 1,000	1,000	8,000	5,800	13,000	< 1,000	43,000	< 1,000	< 1,000	< 10,000	92,400
Recovery Well No 6 (RW – 6)	03 09 07	Not Operating															
	08 24 07	Not Operating															
	11 20 07	Not Operating															
Recovery Well No 7 (RW – 7)	03 09 07	930	< 100	< 2,000	340	< 500	< 100	930	7,400	2,900	2,600	< 100	6,600	< 100	< 100	< 1,000	21,700
	08 24 07	180	< 100	< 2,000	250	<500	< 100	270	6,400	3,100	2,100	< 100	5,200	< 100	< 100	< 1,000	17,500
	11 20 07	170	<100	<2 000	210	670	<100	180	4,300	1,900	1,800	<100	4,000	< 100	< 100	< 1 000	13,230
Bioreactor No 1 (Bio-1) EFFLUENT	03 09 07	<250	<250	<5 000	1,300	10,000	<250	970	8,500	4,400	8,400	<250	28,000 [2]	<250	<250	<2 500	62,570
	08 24 07	< 500	< 500	< 10 000	870	5,600	< 500	550	8,900	3,800	7,000	< 500	20,000	< 500	< 500	< 5 000	46,720
	11 20 07	< 500	< 500	< 10 000	<500	8,400	< 500	<500	5,600	3,500	6,100	< 500	19,000	< 500	< 500	< 5,000	42,800
Bioreactor No 2 (Bio-2) EFFLUENT	03 09 07	420	< 250	< 5,000	1,100	9,900	< 250	910	7,900	4,000	7,900	< 250	25,000 [2]	< 250	< 250	< 2,500	57,130 [1]
	08 24 07	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	
	11 20 07	<250	<250	<5 000	730	6,400	<250	<250	5,100	2,900	5,300	<250	16,000	<250	<250	<2,500	36,430
Bioreactor No 3 (Bio-3) EFFLUENT	03 09 07	270	<250	<5,000	680	8,800	<250	710	6,500	2,700	6,000	<250	19,000	<250	<250	<2,500	44,660
	08 24 07	110	<100	<2 000	780	5,100	<250	570	9,100	3,600	7,100	<100	19,000 [2]	<100	<100	1000	45,360
	11 20 07	260	<250	<5 000	2,000	18,000	<250	1,300	18,000	8,400	16,000	<250	45,000 [2]	<250	<250	<2 500	108,960
Carbon Vessel No 1 (CV 1) EFFLUENT	03 09 07	< 100	< 100	< 2 000	790	<500	< 100	730	7,400	1,500	2,000	< 100	880	< 100	< 100	< 1 000	13,300
	08 24 07	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	
	11 20 07	< 500	< 500	< 10 000	<500	<2 500	< 500	<500	4,700	2,200	4,500	< 500	9,900	< 500	< 500	< 5 000	21,300
Carbon Vessel No 2 (CV – 2) EFFLUENT	03 09 07	260	<250	<5,000	770	6,500	<250	700	6,800	2,200	5,400	<250	16,000	<250	<250	<2,500	38,630
	08 24 07	<250	<250	<5 000	970	<1 300	<250	700	10,000	3,600	7,100	<250	5,500	<250	<250	<2,500	27,870
	11 20 07	<250	<250	<5 000	1,000	<1 300	<250	650	9,300	4,800	10,000	<250	9,300	<250	<250	<2 500	35,050

Concentrations are in parts per micrograms per liter (ug/L) or parts per billion (ppb) "<" = Method Detection Limit of the analysis Detectable concentrations appear in Bold script Samples were analyzed by Groundwater Analytical

1 Initial sample includes 320 ppm 1,2-Dichloroethane 2 Sample re-analyzed to bring respective analytes within calibration range of test

TABLE 10: ANALYTICAL TEST RESULTS - SURFACE WATER

		ANALYTE															
Sample Location	Sample Date	Vinyl Chloride (N/A)	Chloroethane (N/A)	Acetone (N/A)	1,1-Dichloroethene (N/A)	Methylene Chloride (N/A)	trans-1,2-Dichloroethene (N/A)	1,1-Dichloroethane (47)	cis-1,2-Dichloroethene (N/A)	1,1,1-Trichloroethane (62)	Trichloroethene (350)	1,4-Dioxane (N/A)	Toluene (130)	Tetra-Chloroethene (120)	Xylenes (1.8)	Naphthalene (24)	Total VOCs
SW-3	07 08 04	< 1 0	< 1 0	< 5 0	< 0 50	< 5 0	< 0 75	< 0 75	< 0 50	< 0 50	< 0 50	< 250	< 0 75	< 0 50	< 0 50	< 2 5	BMDL
	12 20 04	19	1 9	< 5 0	12	6 4	0 80	30	> 100	52	25	< 250	< 0 75	24	< 0 50	< 2 5	171 1
	06 24 05	2	< 0 5	< 10	2	< 2 5	< 0 5	9	35	4	9	< 250	< 0 5	13	< 0 5	< 0 5	74
	08 01 06	89	19	< 200	38	< 50	< 10	170	950	200	43	< 250	< 10	10	< 10	< 10	1,519
	11 07 07	<2 5	<2 5	<50	<2 5	<13	<2 5	<2 5	13	<2 5	5	<2500	<2 5	6	<2 5	<2 5	24
SW-10	07 08 04	330	350	< 50	< 5 0	< 50	< 7 5	380	300	35	< 5 0	< 2 500	< 7 5	< 5 0	< 5 0	< 25	1,395
	12 20 04	110	< 10	< 50	29	< 50	17	87	> 1,000	190	53	< 2 500	< 7 5	8 5	< 5 0	< 25	> 1,494 50
	06 24 05	110	270	< 100	< 5	<25	< 5	310	200	23	< 5	< 250	21	< 5	< 5	< 5	934
	08 01 06	120	55	< 200	< 10	< 50	< 10	250	250	74	< 10	< 250	< 10	< 10	< 10	< 10	749
	11 07 07	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	-
SW-DSC-1	07 08 04	< 1 0	< 1 0	< 5 0	< 0 50	< 5 0	< 0 75	< 0 75	< 0 50	< 0 50	< 0 50	< 250	< 0 75	< 0 50	< 0 50	< 2 5	BMDL
	12 20 04	3 0	< 1 0	< 5 0	1 5	< 5 0	< 0 75	4 8	29	7 5	3 5	< 250	< 0 75	3 6	< 0 50	< 2 5	53
	06 24 05	< 0 5	< 0 5	< 10	< 0 5	< 2 5	< 0 5	2	6	1	2	< 250	< 0 5	2	< 0 5	< 0 5	13
	08 01 06	< 0 5	< 0 5	< 10	< 0 5	< 2 5	< 0 5	< 0 5	2	< 0 5	1	< 250	< 0 5	2	< 0 5	< 0 5	5
	11 07 07	<2 5	<2 5	<50	<2 5	<13	<13	<2 5	5	<2 5	<2 5	<2500	<2 5	<2 5	<2 5	<2 5	5
SW-USA-1	07 08 04	< 1 0	< 1 0	< 5 0	< 0 50	< 5 0	< 0 75	< 0 75	< 0 50	< 0 50	< 0 50	< 250	< 0 75	< 0 50	< 0 50	< 2 5	BMDL
	12 20 04	< 1 0	< 1 0	< 5 0	< 0 50	< 5 0	< 0 75	2 4	8 1	2 1	1 1	< 250	< 0 75	0 95	< 0 50	< 2 5	33 85
	06 24 05	< 0 5	< 0 5	< 10	< 0 5	< 2 5	< 0 5	< 0 5	< 0 5	< 0 5	< 0 5	< 250	< 0 5	< 0 5	< 0 5	< 0 5	BMDL
	08 01 06	< 0 5	< 0 5	< 10	< 0 5	< 2 5	< 0 5	< 0 5	< 0 5	< 0 5	< 0 5	< 250	< 0 5	< 0 5	< 0 5	< 0 5	BMDL
	11 07 07	<2 5	<2 5	<50	<2 5	<13	<2 5	<2 5	5	<2 5	<2 5	<2500	<2 5	3	<2 5	<2 5	8

July and December 2004 samples were analyzed by Alpha Analytical
June 2005 and August 2006 samples were analyzed by Groundwater Analytical
Concentrations are in parts per micrograms per liter (ug/L) or parts per billion (ppb)
'<' = Method Detection Limit of the analysis
Detectable concentrations appear in **Bold** script
Concentrations exceeding applicable USEPA ECOTOX Thresholds appear in ***shaded bold Italics***
BMDL = Below Method Detection Limits of the analysis

The USEPA **ECOTOX Thresholds** appear parenthetically below the respective analytes
(The USEPA ECOTOX THRESHOLDS are benchmark values used in ecological risk assessment by the USEPA The Ecotox Thresholds are defined as media-specific contaminant concentrations above which there is sufficient concern regarding adverse ecological effects to warrant further site investigation (USEPA ECO Update, Intermittent Bulletin Volume 3, Number 2 January 1996)
N/A = No applicable Eco Tox value

APPENDIX A

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

March 12, 2007

Mr. Jon Aisner
WEB Engineering
106 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical Corporation/04-E-037**
Lab ID: **104379**
Received: **02-26-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/ajh
Enclosures

APP A
ATR / GWMW-SW

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: General Chemical Corporation/04-E-037
Client: WEB Engineering
Lab ID: 104379

Delivery: GWA Courier
Airbill: n/a
Lab Receipt: 02-26-07

Temperature: 2'C
Chain of Custody: Present
Custody Seal(s): n/a

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104379-1	GZA-19DD		Aqueous	2/20/07 9:29	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C876809	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876803	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876797	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104379-2	WMW-85		Aqueous	2/20/07 11:14	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C876833	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876827	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876821	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104379-3	GZA-15R		Aqueous	2/20/07 12:19	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C876851	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876845	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876839	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104379-4	GZA-15D		Aqueous	2/20/07 13:06	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C876808	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876802	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876796	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104379-5	GZA-15S		Aqueous	2/20/07 13:37	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C876826	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876820	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876814	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104379-6	GZA-14M		Aqueous	2/20/07 14:50	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C876844	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876801	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876795	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project: General Chemical Corporation/04-E-037 Lab ID: 104379
Client: WEB Engineering Received: 02-26-07 17:30

MA DEP Compendium of Analytical Methods

Project Location: n/a MA DEP RTN: n/a

This Form provides certifications for the following data set:

EPA 8260B: 104379-1,-2,-3,-4,-5,-6

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )
	1. List Release Tracking Number (RTN), if known				
	2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method				
	3. S - SW-846 Methods 7000 Series. List individual method and analyte.				

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	No
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Operations Manager

Printed Name: Eric H. Jensen Date: 03-12-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-19DD	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-01	QC Batch ID:	VM4-3800-W
Sampled:	02-20-07 09:29	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 13:41	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1,400		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	650		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	8,300		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	6,600		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	11,000		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	24,000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-19DD	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-01	QC Batch ID:	VM4-3800-W
Sampled:	02-20-07 09:29	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 13:41	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	110 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	97 %	70 - 130 %
Toluene-d_8	10	10	105 %	70 - 130 %
4-Bromofluorobenzene	10	9.4	94 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-8S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-02	QC Batch ID:	VM4-3800-W
Sampled:	02-20-07 11:14	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 15:18	Dilution Factor:	2000
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1000
74-87-3	Chloromethane	BRL		ug/L	1000
75-01-4	Vinyl Chloride	7,500		ug/L	1000
74-83-9	Bromomethane	BRL		ug/L	1000
75-00-3	Chloroethane	BRL		ug/L	1000
75-69-4	Trichlorofluoromethane	BRL		ug/L	1000
60-29-7	Diethyl Ether	BRL		ug/L	4000
75-35-4	1,1-Dichloroethene	2,400		ug/L	1000
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	10000
67-64-1	Acetone	BRL		ug/L	20000
75-15-0	Carbon Disulfide	BRL		ug/L	10000
75-09-2	Methylene Chloride	BRL		ug/L	5000
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	1000
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	1000
75-34-3	1,1-Dichloroethane	11,000		ug/L	1000
594-20-7	2,2-Dichloropropane	BRL		ug/L	1000
156-59-2	*cis*-1,2-Dichloroethene	56,000		ug/L	1000
78-93-3	2-Butanone (MEK)	BRL		ug/L	10000
74-97-5	Bromochloromethane	BRL		ug/L	1000
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10000
67-66-3	Chloroform	BRL		ug/L	1000
71-55-6	1,1,1-Trichloroethane	11,000		ug/L	1000
56-23-5	Carbon Tetrachloride	BRL		ug/L	1000
563-58-6	1,1-Dichloropropene	BRL		ug/L	1000
71-43-2	Benzene	BRL		ug/L	1000
107-06-2	1,2-Dichloroethane	BRL		ug/L	1000
79-01-6	Trichloroethene	BRL		ug/L	1000
78-87-5	1,2-Dichloropropane	BRL		ug/L	1000
74-95-3	Dibromomethane	BRL		ug/L	1000
75-27-4	Bromodichloromethane	BRL		ug/L	1000
123-91-1	1,4-Dioxane	BRL		ug/L	1000000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	1000
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10000
108-88-3	Toluene	BRL		ug/L	1000
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	1000
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1000
127-18-4	Tetrachloroethene	BRL		ug/L	1000
142-28-9	1,3-Dichloropropane	BRL		ug/L	1000
591-78-6	2-Hexanone	BRL		ug/L	10000
124-48-1	Dibromochloromethane	BRL		ug/L	1000
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1000
108-90-7	Chlorobenzene	BRL		ug/L	1000
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1000
100-41-4	Ethylbenzene	BRL		ug/L	1000
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	1000
95-47-6	*ortho*-Xylene	BRL		ug/L	1000

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-8S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-02	QC Batch ID:	VM4-3800-W
Sampled:	02-20-07 11:14	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 15:18	Dilution Factor:	2000
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1000
75-25-2	Bromoform	BRL		ug/L	1000
98-82-8	Isopropylbenzene	BRL		ug/L	1000
108-86-1	Bromobenzene	BRL		ug/L	1000
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1000
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1000
103-65-1	*n*-Propylbenzene	BRL		ug/L	1000
95-49-8	2-Chlorotoluene	BRL		ug/L	1000
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1000
106-43-4	4-Chlorotoluene	BRL		ug/L	1000
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1000
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1000
135-98-8	*sec*-Butylbenzene	BRL		ug/L	1000
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1000
99-87-6	4-Isopropyltoluene	BRL		ug/L	1000
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1000
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1000
104-51-8	*n*-Butylbenzene	BRL		ug/L	1000
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1000
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1000
87-68-3	Hexachlorobutadiene	BRL		ug/L	1000
91-20-3	Naphthalene	BRL		ug/L	1000
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1000
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1000
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1000
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	1000

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	114 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	105 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.3	93 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-15R	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-03	QC Batch ID:	VM4-3800-W
Sampled:	02-20-07 12:19	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 15:50	Dilution Factor:	2
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1
74-87-3	Chloromethane	BRL		ug/L	1
75-01-4	Vinyl Chloride	3		ug/L	1
74-83-9	Bromomethane	BRL		ug/L	1
75-00-3	Chloroethane	BRL		ug/L	1
75-69-4	Trichlorofluoromethane	BRL		ug/L	1
60-29-7	Diethyl Ether	BRL		ug/L	4
75-35-4	1,1-Dichloroethene	4		ug/L	1
76-13-1	1,1,2-Trichlorotrifluoroethane	11		ug/L	10
67-64-1	Acetone	BRL		ug/L	20
75-15-0	Carbon Disulfide	BRL		ug/L	10
75-09-2	Methylene Chloride	BRL		ug/L	5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	1
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	1
75-34-3	1,1-Dichloroethane	5		ug/L	1
594-20-7	2,2-Dichloropropane	BRL		ug/L	1
156-59-2	*cis*-1,2-Dichloroethene	38		ug/L	1
78-93-3	2-Butanone (MEK)	BRL		ug/L	10
74-97-5	Bromochloromethane	BRL		ug/L	1
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10
67-66-3	Chloroform	BRL		ug/L	1
71-55-6	1,1,1-Trichloroethane	17		ug/L	1
56-23-5	Carbon Tetrachloride	BRL		ug/L	1
563-58-6	1,1-Dichloropropene	BRL		ug/L	1
71-43-2	Benzene	BRL		ug/L	1
107-06-2	1,2-Dichloroethane	BRL		ug/L	1
79-01-6	Trichloroethene	BRL		ug/L	1
78-87-5	1,2-Dichloropropane	BRL		ug/L	1
74-95-3	Dibromomethane	BRL		ug/L	1
75-27-4	Bromodichloromethane	BRL		ug/L	1
123-91-1	1,4-Dioxane	BRL		ug/L	1000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	1
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10
108-88-3	Toluene	BRL		ug/L	1
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	1
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1
127-18-4	Tetrachloroethene	BRL		ug/L	1
142-28-9	1,3-Dichloropropane	BRL		ug/L	1
591-78-6	2-Hexanone	BRL		ug/L	10
124-48-1	Dibromochloromethane	BRL		ug/L	1
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1
108-90-7	Chlorobenzene	BRL		ug/L	1
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1
100-41-4	Ethylbenzene	BRL		ug/L	1
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	1
95-47-6	*ortho*-Xylene	BRL		ug/L	1

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-15R	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-03	QC Batch ID:	VM4-3800-W
Sampled:	02-20-07 12:19	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 15:50	Dilution Factor:	2
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1
75-25-2	Bromoform	BRL		ug/L	1
98-82-8	Isopropylbenzene	BRL		ug/L	1
108-86-1	Bromobenzene	BRL		ug/L	1
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1
103-65-1	*n*-Propylbenzene	BRL		ug/L	1
95-49-8	2-Chlorotoluene	BRL		ug/L	1
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1
106-43-4	4-Chlorotoluene	BRL		ug/L	1
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1
135-98-8	*sec*-Butylbenzene	BRL		ug/L	1
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1
99-87-6	4-Isopropyltoluene	BRL		ug/L	1
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1
104-51-8	*n*-Butylbenzene	BRL		ug/L	1
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1
87-68-3	Hexachlorobutadiene	BRL		ug/L	1
91-20-3	Naphthalene	BRL		ug/L	1
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	1

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	109 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.9	99 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-15D	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-04	QC Batch ID:	VM4-3798-W
Sampled:	02-20-07 13:06	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	02-28-07 14:54	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	1		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	1		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	5		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	2		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	14		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	7		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-15D	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-04	QC Batch ID:	VM4-3798-W
Sampled:	02-20-07 13:06	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	02-28-07 14:54	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	111 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.8	98 %	70 - 130 %
Toluene-d_8	10	11	105 %	70 - 130 %
4-Bromofluorobenzene	10	9.4	94 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-15S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 ml. VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-05	QC Batch ID:	VM4-3798-W
Sampled:	02-20-07 13:37	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 ml.
Analyzed:	02-28-07 15:27	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	1		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	1		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	2		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	12		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	6		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-15S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-05	QC Batch ID:	VM4-3798-W
Sampled:	02-20-07 13:37	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	02-28-07 15:27	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	109 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	92 %	70 - 130 %
Toluene-d_8	10	10	102 %	70 - 130 %
4-Bromofluorobenzene	10	9.5	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-14M	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-06	QC Batch ID:	VM4-3798-W
Sampled:	02-20-07 14:50	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	02-28-07 16:01	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	580		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	560		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	530		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	5,300		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	12,000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-14M	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104379-06	QC Batch ID:	VM4-3798-W
Sampled:	02-20-07 14:50	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	02-28-07 16:01	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	108 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	97 %	70 - 130 %
Toluene-d_8	10	11	107 %	70 - 130 %
4-Bromofluorobenzene	10	9.4	94 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	General Chemical Corporation/04-E-037	Lab ID:	104379
Client:	WEB Engineering	Received:	02-26-07 17:30

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Samples 104379-04 through -06. Laboratory control sample (LCS) analytes Acetone, 1,4-Dioxane were above recommended recovery limits for QC batch VM4-3798.
2. EPA 8260B Note: Samples 104379-01,-02,-03,-06. Sample were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

CHAIN OF CUSTODY RECORD

№ 217317

Project Number:	Project Name: Longwood Ave
Project Name: Brazil Obarsky	City / State / Zip: Westwood MA 02061
Project Manager: Don Aisler	Telephone: 781-828-7766

INSTRUCTIONS: Use separate line for each container (except replicates).

REPORT TO:
- ☐ Please Email to:
- ☐ Please FAX to: 781-828-7766

BILLING
- ☐ Purchase Order No.: 01-E-037
- ☐ Third Party Billing:
- ☐ GWA Quote:

ANALYSIS REQUEST

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
2-23-07	1030	MW-02A-1007	W	G	3X	X	X	
	09	GA-BR						
		GA-MD						
	1137	GA-155						
	210	GA-RM						

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Information
- ☐ YES ☐ NO MCP Data Certification required
- ☐ YES ☐ NO MCP Drinking Water Samples included. (Requires collection of contingent duplicate sample. Trip blanks are also required, if VOA sample collected).

Signature:

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☑ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☐ MA	☐ NY STARS	☐
☐ NH	☑ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐	☐	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
☐ Sample Duplicate	☐ Please use sample:
☐ Matrix Spike	
☐ Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler:	Date	Time	Received by:	Receipt Temperature:
Bruce Obarsky	2/23/07	4:51		Use ☐ Refrigerant ☐ Ice if Recommended
Relinquished by:	Date	Time	Received by:	Container Count:
	2/26/07	1030		18
Relinquished by:	Date	Time	Received by Laboratory:	Shipping/Airbill Number:
	2/26/07	1730		
Method of Shipment: ☐ GWA Courier ☑ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐				Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3798-WL	Analyzed:	02-28-07 10:41	Analyzed:	02-28-07 11:12
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	12	119 %	10	12	123 %	3 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.5	95 %	10	9.8	98 %	4 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	10	102 %	10	11	105 %	3 %	70 - 130 %	25%
74-83-9	Bromomethane	10	10	100 %	10	10	104 %	5 %	70 - 130 %	25%
75-00-3	Chloroethane	10	10	104 %	10	11	106 %	2 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	11	107 %	10	11	108 %	2 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	85 %	20	16	82 %	3 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	10	102 %	10	11	107 %	5 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	21	107 %	20	23	115 %	7 %	70 - 130 %	25%
67-64-1	Acetone	20	26	131 % q	20	28	140 % q	6 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	19	95 %	20	19	96 %	1 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	10	103 %	10	10	101 %	2 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	10	101 %	10	10	100 %	1 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	9.1	91 %	10	9.3	93 %	2 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.7	97 %	10	10	100 %	2 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.3	93 %	10	9.3	93 %	0 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	100 %	10	10	104 %	4 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	21	106 %	20	18	88 %	18 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	10	100 %	10	10	105 %	4 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	17	84 %	20	18	89 %	5 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.8	98 %	10	10	100 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.5	95 %	10	9.4	94 %	1 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.8	98 %	10	10	101 %	4 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.1	91 %	10	9.5	95 %	4 %	70 - 130 %	25%
71-43-2	Benzene	10	9.4	94 %	10	9.5	95 %	2 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.2	92 %	10	9.1	91 %	1 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	9.5	95 %	10	9.8	98 %	3 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	9.4	94 %	10	9.9	99 %	5 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	10	101 %	10	10	104 %	3 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	270	135 % q	200	300	151 % q	11 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	9.6	96 %	10	10	102 %	6 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	17	84 %	20	17	87 %	3 %	70 - 130 %	25%
108-88-3	Toluene	10	9.7	97 %	10	9.9	99 %	2 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.6	96 %	10	9.9	99 %	4 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.4	94 %	10	9.9	99 %	5 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	11	109 %	10	11	114 %	4 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	9.2	92 %	10	9.7	97 %	6 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	16	81 %	20	17	86 %	6 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	12	117 %	10	12	119 %	2 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	10	100 %	10	10	102 %	2 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	102 %	10	11	105 %	3 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	11	107 %	10	11	109 %	2 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	10	102 %	10	11	106 %	4 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	21	103 %	20	22	108 %	5 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	103 %	10	11	106 %	3 %	70 - 130 %	25%
100-42-5	Styrene	10	10	103 %	10	11	108 %	5 %	70 - 130 %	25%
75-25-2	Bromoform	10	12	117 %	10	12	125 %	6 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	8.9	89 %	10	9.1	91 %	2 %	70 - 130 %	25%

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3798-WL	Analyzed:	02-28-07 10:41	Analyzed:	02-28-07 11:12
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.6	96 %	10	9.9	99 %	3 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	8.3	83 %	10	8.5	85 %	2 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	9.7	97 %	10	9.5	95 %	2 %	70 - 130 %	25%
103-65-1	n-Propylbenzene	10	9.1	91 %	10	9.4	94 %	3 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.2	92 %	10	9.6	96 %	5 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.7	97 %	10	9.9	99 %	2 %	70 - 130 %	25%
98-06-6	tert-Butylbenzene	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98 %	10	10	100 %	3 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	10	9.1	91 %	10	9.4	94 %	4 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.6	96 %	10	9.9	99 %	3 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.5	95 %	10	9.7	97 %	2 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.5	95 %	10	9.7	97 %	2 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.4	94 %	10	9.7	97 %	3 %	70 - 130 %	25%
104-51-8	n-Butylbenzene	10	9.3	93 %	10	9.5	95 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	8.3	83 %	10	8	80 %	3 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.8	98 %	10	10	100 %	2 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	10	102 %	10	10	103 %	2 %	70 - 130 %	25%
91-20-3	Naphthalene	10	8.7	87 %	10	9.2	92 %	5 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	9.3	93 %	10	9.8	98 %	5 %	70 - 130 %	25%
75-65-0	tert-Butyl Alcohol (TBA)	200	230	115 %	200	240	119 %	4 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.7	87 %	10	8.7	87 %	1 %	70 - 130 %	25%
637-92-3	Ethyl tert-butyl Ether (ETBE)	10	8.4	84 %	10	8.5	85 %	1 %	70 - 130 %	25%
994-05-8	tert-Amyl Methyl Ether (TAME)	10	8.3	83 %	10	8.6	86 %	3 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	11	107 %	10	11	109 %		70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	92 %	10	9.6	96 %		70 - 130 %
Toluene-d_8	10	11	105 %	10	10	104 %		70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	10	9.5	95 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3798-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 02-28-07 11:45
Analyst: KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3798-WB	Analyzed:	02-28-07 11:45
Matrix:	Aqueous	Analyst:	KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	109 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	97 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.5	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3800-WL	Analyzed:	03-01-07 10:02	Analyzed:	03-01-07 10:32
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	11	109 %	10	11	110 %	0 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9	90 %	10	9.9	99 %	9 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	9.8	98 %	10	11	109 %	11 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.5	95 %	10	11	107 %	11 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.7	97 %	10	11	108 %	11 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	10	102 %	10	11	114 %	11 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	86 %	20	17	85 %	1 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	10	101 %	10	11	113 %	12 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	21	104 %	20	22	111 %	7 %	70 - 130 %	25%
67-64-1	Acetone	20	20	100 %	20	21	104 %	3 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	17	87 %	20	20	99 %	13 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.3	93 %	10	9.3	93 %	1 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.5	95 %	10	10	105 %	9 %	70 - 130 %	25%
1634-04-4	Methyl tert-butyl Ether (MTBE)	10	9	90 %	10	8.9	89 %	1 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.4	94 %	10	10	100 %	6 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.1	91 %	10	9.9	99 %	8 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	9.8	98 %	10	11	106 %	8 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	17	83 %	20	16	79 %	5 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	16	78 %	20	15	76 %	2 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.5	95 %	10	10	102 %	7 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9	90 %	10	9.6	96 %	6 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.3	93 %	10	10	104 %	11 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	8.8	88 %	10	9.4	94 %	6 %	70 - 130 %	25%
71-43-2	Benzene	10	9	90 %	10	9.6	96 %	6 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.2	92 %	10	9.2	92 %	1 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.4	94 %	10	10	102 %	8 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	9.2	92 %	10	9.5	95 %	4 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	9.8	98 %	10	10	102 %	4 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	230	116 %	200	210	107 %	8 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	9.3	93 %	10	9.8	98 %	5 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	16	81 %	20	16	82 %	1 %	70 - 130 %	25%
108-88-3	Toluene	10	9.5	95 %	10	9.9	99 %	5 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.2	92 %	10	9.3	93 %	1 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.5	95 %	10	9.4	94 %	1 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	10	104 %	10	11	114 %	10 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	9.2	92 %	10	9.4	94 %	2 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	16	80 %	20	16	82 %	2 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	112 %	10	12	115 %	3 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	9.9	99 %	10	10	100 %	2 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	100 %	10	11	107 %	6 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	11	107 %	10	11	111 %	4 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.9	99 %	10	11	106 %	7 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	101 %	20	21	107 %	7 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	100 %	10	11	109 %	9 %	70 - 130 %	25%
100-42-5	Styrene	10	10	101 %	10	11	107 %	6 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	112 %	10	12	116 %	4 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	8.4	84 %	10	9.1	91 %	8 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3800-WL	Analyzed:	03-01-07 10:02	Analyzed:	03-01-07 10:32
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.6	96 %	10	10	101 %	5 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	8.2	82 %	10	8.3	83 %	1 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	8.9	89 %	10	9.3	93 %	4 %	70 - 130 %	25%
103-65-1	n-Propylbenzene	10	8.6	86 %	10	9.3	93 %	7 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.1	91 %	10	9.7	97 %	6 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	9	90 %	10	9.5	95 %	6 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9	90 %	10	9.8	98 %	8 %	70 - 130 %	25%
98-06-6	tert-Butylbenzene	10	9	90 %	10	9.5	95 %	6 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	9.3	93 %	10	10	100 %	7 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	10	8.7	87 %	10	9.5	95 %	8 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.4	94 %	10	9.8	98 %	4 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.1	91 %	10	9.9	99 %	8 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.2	92 %	10	9.9	99 %	6 %	70 - 130 %	25%
104-51-8	n-Butylbenzene	10	8.8	88 %	10	9.4	94 %	7 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	7.9	79 %	10	7.9	79 %	1 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.6	96 %	10	10	101 %	5 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.6	96 %	10	11	109 %	12 %	70 - 130 %	25%
91-20-3	Naphthalene	10	8.9	89 %	10	9.1	91 %	3 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	9.2	92 %	10	9.6	96 %	4 %	70 - 130 %	25%
75-65-0	tert-Butyl Alcohol (TBA)	200	210	106 %	200	210	103 %	4 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.2	82 %	10	9.1	91 %	10 %	70 - 130 %	25%
637-92-3	Ethyl tert-butyl Ether (ETBE)	10	8.4	84 %	10	8.8	88 %	4 %	70 - 130 %	25%
994-05-8	tert-Amyl Methyl Ether (TAME)	10	8.5	85 %	10	8.4	84 %	0 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	11	108 %	10	11	112 %		70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	97 %	10	9.3	93 %		70 - 130 %
Toluene-d_8	10	11	107 %	10	11	106 %		70 - 130 %
4-Bromofluorobenzene	10	9.3	93 %	10	9.3	93 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3800-WB	Analyzed:	03-01-07 11:03
Matrix:	Aqueous	Analyst:	KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:.	MS-4 HP 6890
QC Batch ID:	VM4-3800-WB	Analyzed:	03-01-07 11:03
Matrix:	Aqueous	Analyst:	KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	111 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.4	94 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.6	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1995).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental_Lab/out_state.pdf

FLORIDA

Department of Health, Bureau of Laboratories, E87643 — SDWA, CWA, RCRA/CERCLA
http://www.floridadep.org/labs/qa/dohforms.htm

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt_list_aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-11083 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph_lab/documents/certified_labs.pdf

GROUNDWATER ANALYTICAL

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March 12, 2007

Mr. Jon Aisner
WEB Engineering
106 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical Corporation/04-E-037**
Lab ID: **104382**
Received: **02-26-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/ajh
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical Corporation/04-E-037**
Client: **WEB Engineering**
Lab ID: **104382**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **02-26-07**

Temperature: **2'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104382-1	GZA-14S		Aqueous	2/21/07 9:41	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876863	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876857	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876850	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104382-2	WMW-7		Aqueous	2/21/07 11:12	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876825	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876819	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876813	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104382-3	WMW-2S		Aqueous	2/21/07 11:53	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876843	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876837	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876831	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104382-4	WMW-2D		Aqueous	2/21/07 12:50	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876861	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876855	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876849	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104382-5	WMW-3		Aqueous	2/21/07 13:35	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876806	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876800	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876794	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104382-6	GZ-7		Aqueous	2/21/07 14:36	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876824	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876818	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876812	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104382-7	GZ-7R		Aqueous	2/21/07 15:32	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876842	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876836	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876830	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104382-8	GZ-5S		Aqueous	2/21/07 10:31	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876862	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876856	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

GROUNDWATER ANALYTICAL

Data Certification

Project: General Chemical Corporation/04-E-037
Client: WEB Engineering

Lab ID: 104382
Received: 02-26-07 17:30

MA DEP Compendium of Analytical Methods						
Project Location:	n/a			MA DEP RTN:	n/a	
This Form provides certifications for the following data set:						
EPA 8260B:	104382-1,-2,-3,-4,-5,-6,-7,-8					
Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )		
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )	
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9012A[2] ( )	
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )	
	1. List Release Tracking Number (RTN), if known.					
	2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method					
	3. S - SW-846 Methods 7000 Series. List individual method and analyte.					

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	No
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: EHJ

Position: Operations Manager

Printed Name: Eric H. Jensen

Date: 03-12-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-14S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-01	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 09:41	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 19:50	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	0.9		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl tert-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	0.5		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	3		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	4		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	17		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	31		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-14S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-01	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 09:41	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 19:50	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	12	**116 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**106 %**	70 - 130 %
Toluene-d_8	10	11	**106 %**	70 - 130 %
4-Bromofluorobenzene	10	8.8	**88 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-7	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-02	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 11:12	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 20:19	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	2		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	8		ug/L	2
75-35-4	1,1-Dichloroethene	0.5		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	0.6		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	10		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	7		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	2		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	11		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	35		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	5		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	1		ug/L	0.5
95-47-6	*ortho*-Xylene	0.7		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-7	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-02	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 11:12	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 20:19	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	1		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	2		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	3		ug/L	0.5
135-98-8	*sec*-Butylbenzene	1		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	1		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	2		ug/L	0.5
104-51-8	*n*-Butylbenzene	1		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	1		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	112 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	101 %	70 - 130 %
Toluene-d_8	10	10	101 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-2S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-03	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 11:53	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 20:48	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	1		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	3		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	0.5		ug/L	0.5
75-34-3	1,1-Dichloroethane	13		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	2		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	38		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	5		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	25		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-2S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-03	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 11:53	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 20:48	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**111 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	9.6	**96 %**	70 - 130 %
Toluene-d_8	10	10	**105 %**	70 - 130 %
4-Bromofluorobenzene	10	9.1	**91 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-2D	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-04	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 12:50	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 21:17	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	0.7		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	2		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	2		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	5		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	22		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-2D	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-04	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 12:50	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 21:17	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	115 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.9	99 %	70 - 130 %
Toluene-d_8	10	10	103 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-3	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-05	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 13:35	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 21:46	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	0.5		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl tert-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	1		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	23		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	0.7		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	7		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	6		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	21		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-3	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-05	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 13:35	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 21:46	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	0.6		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	115 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	101 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.3	93 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-7	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-06	QC Batch ID:	VM4-3805-W
Sampled:	02-21-07 14:36	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 13:54	Dilution Factor:	20
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	10
74-87-3	Chloromethane	BRL		ug/L	10
75-01-4	Vinyl Chloride	BRL		ug/L	10
74-83-9	Bromomethane	BRL		ug/L	10
75-00-3	Chloroethane	BRL		ug/L	10
75-69-4	Trichlorofluoromethane	BRL		ug/L	10
60-29-7	Diethyl Ether	BRL		ug/L	40
75-35-4	1,1-Dichloroethene	16		ug/L	10
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	100
67-64-1	Acetone	BRL		ug/L	200
75-15-0	Carbon Disulfide	BRL		ug/L	100
75-09-2	Methylene Chloride	BRL		ug/L	50
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	10
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	10
75-34-3	1,1-Dichloroethane	14		ug/L	10
594-20-7	2,2-Dichloropropane	BRL		ug/L	10
156-59-2	*cis*-1,2-Dichloroethene	950		ug/L	10
78-93-3	2-Butanone (MEK)	BRL		ug/L	100
74-97-5	Bromochloromethane	BRL		ug/L	10
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	100
67-66-3	Chloroform	BRL		ug/L	10
71-55-6	1,1,1-Trichloroethane	640		ug/L	10
56-23-5	Carbon Tetrachloride	BRL		ug/L	10
563-58-6	1,1-Dichloropropene	BRL		ug/L	10
71-43-2	Benzene	BRL		ug/L	10
107-06-2	1,2-Dichloroethane	BRL		ug/L	10
79-01-6	Trichloroethene	250		ug/L	10
78-87-5	1,2-Dichloropropane	BRL		ug/L	10
74-95-3	Dibromomethane	BRL		ug/L	10
75-27-4	Bromodichloromethane	BRL		ug/L	10
123-91-1	1,4-Dioxane	BRL		ug/L	10000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	100
108-88-3	Toluene	BRL		ug/L	10
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	10
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	10
127-18-4	Tetrachloroethene	130		ug/L	10
142-28-9	1,3-Dichloropropane	BRL		ug/L	10
591-78-6	2-Hexanone	BRL		ug/L	100
124-48-1	Dibromochloromethane	BRL		ug/L	10
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	10
108-90-7	Chlorobenzene	BRL		ug/L	10
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	10
100-41-4	Ethylbenzene	BRL		ug/L	10
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	10
95-47-6	*ortho*-Xylene	BRL		ug/L	10

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-7	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-06	QC Batch ID:	VM4-3805-W
Sampled:	02-21-07 14:36	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 13:54	Dilution Factor:	20
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	10
75-25-2	Bromoform	BRL		ug/L	10
98-82-8	Isopropylbenzene	BRL		ug/L	10
108-86-1	Bromobenzene	BRL		ug/L	10
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	10
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	10
103-65-1	*n*-Propylbenzene	BRL		ug/L	10
95-49-8	2-Chlorotoluene	BRL		ug/L	10
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	10
106-43-4	4-Chlorotoluene	BRL		ug/L	10
98-06-6	*tert*-Butylbenzene	BRL		ug/L	10
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	10
135-98-8	*sec*-Butylbenzene	BRL		ug/L	10
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	10
99-87-6	4-Isopropyltoluene	BRL		ug/L	10
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	10
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	10
104-51-8	*n*-Butylbenzene	BRL		ug/L	10
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	10
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	10
87-68-3	Hexachlorobutadiene	BRL		ug/L	10
91-20-3	Naphthalene	BRL		ug/L	10
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	10
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	400
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	10
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	10
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	10

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	111 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.9	99 %	70 - 130 %
Toluene-d_8	10	11	105 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution,

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-7R	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-07	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 15:32	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 22:44	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	0.9		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	0.6		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	6		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	11		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	11		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	45		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-7R	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-07	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 15:32	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 22:44	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	n-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	tert-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	sec-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	n-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	tert-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl tert-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	tert-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	12	115 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	105 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	8.9	89 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-5S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-08	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 10:31	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 23:13	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	0.5		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	3		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	1		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	6		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	25		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-5S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104382-08	QC Batch ID:	VM4-3804-W
Sampled:	02-21-07 10:31	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-05-07 23:13	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	115 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	8.9	89 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical Corporation/04-E-037**	Lab ID:	**104382**
Client:	**WEB Engineering**	Received:	**02-26-07 17:30**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Samples 104382-01 through -05, -07, and -08. Laboratory control sample (LCS) analyte Methylene Chloride was above recommended recovery limits for QC batch VM4-3804-W.

2. EPA 8260B Non-conformance: Samples 104382-06. Laboratory control sample (LCS) analyte tert-Butyl Alcohol was above recommended recovery limits for QC batch VM4-3805-W.

3. EPA 8260B Note: Sample 104382-06. Sample was diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

GROUNDWATER ANALYTICAL

228 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

№ 217318

Project Name: General chemical corp	Firm: WEB Engineering Assoc.
Project Number: 04-E-037	Address: 104 Longwater Drive
Sampler Name: Bruce Oborsky	City / State / Zip: Norwell MA 02061
Project Manager: Jon Atsner	Telephone: 781-878-7769

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- [x] STANDARD (10 Business Days)
- [ ] PRIORITY (5 Business Days)
- [ ] RUSH (PAN: _____)
  (Rush requires Rush Authorization Number)
- [ ] Please Email to: _____
- [ ] Please FAX to: 781-878-8005

BILLING

- [ ] Purchase Order No.: 04-E-037
- [ ] Third Party Billing: _____
- [ ] GWA Quote: _____

ANALYSIS REQUEST

OPTIONS / BOTTLES / PRESERVATIVE / REMARKS

Volatiles: 8260 Comp; 524.2 MTBE; 8260 MTBE
Semivolatiles: 8270 Comp; 8270 Low Level; 8270 Comp SIM
Pest/Herb/PCBs: 8081 Pesticides; 8151 Herbicides; 8082 PCBs
Metals: RCRA 8 Metals; Total Metals; Dissolved Metals
Petroleum Hydrocarbons: Ext. TPH; Fuel ID; MADEP VPH; MADEP EPH; Fuel ID
Haz. Waste: TCLP Pesticides; TCLP Herbicides; TCLP Metals; Reactivity; Ignitability; Corrosivity; TCLP VOA; TCLP SVOA; Mercury; Cyanide; Sulfide
General Chemistry: Chloride; Phosphorus; Ammonia; Nitrate; Nitrite; Sulfate; TKN; Alkalinity; TDS; TSS; Hardness; Color; Turbidity; Conductivity; Flash Point; Reactivity; Ignitability; Corrosivity; Percent Solids
Other: MBAS; TOC

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
2/20	9:41	GZA-145	GROUNDWATER	COMPOSITE	3	HCl	N	
	11:12	wmw-7	GROUNDWATER	COMPOSITE	3	HCl	N	
	11:53	wmw-25	GROUNDWATER	COMPOSITE	3	HCl	N	
	12:20	wmw-20	GROUNDWATER	COMPOSITE	3	HCl	N	
	1:35	wmw-3	GROUNDWATER	COMPOSITE	3	HCl	N	
	2:36	GZ-7	GROUNDWATER	COMPOSITE	3	HCl	N	
	3:32	GZ-7R	GROUNDWATER	COMPOSITE	3	HCl	N	
	10:18	GZ-55						

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation

- [ ] YES [ ] NO MCP Data Certification required.
- [ ] YES [ ] NO MCP Drinking Water Sample included.
  (Requires collection of contingent duplicate sample. Trip blank/s are also required, if VOA sample collected)

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
[ ] CT	[x] MCP GW-1/S-1	[ ] PWS Form
[ ] ME	[ ] MCP GW-2/S-2	[ ] MWRA
[ ] MA	[ ] NY STARS	[ ] _____
[ ] NH	[ ] Drinking Water	
[ ] NY	[ ] Wastewater	
[ ] RI	[ ] Waste Disposal	
[ ] VT	[ ] Dredge Material	
[ ] _____	[ ] _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless predarranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required
- [ ] Sample Duplicate
- [ ] Matrix Spike
- [ ] Matrix Spike Duplicate

Selection of QC Sample
- [ ] Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler: Bruce Oborsky	Date/Time: 2/20/07 14:55	Received by:	Receipt Temperature: 2 °C Refrigerated / °C Ambient
Relinquished by:	Date/Time: 2/21/07 1030	Received by:	Container Count: 24
Relinquished by:	Date/Time: 2/21/07 1730	Received by Laboratory:	Slipping/Airbill Number:
Method of Shipment: [x] GWA Courier [ ] Express Mail [ ] Federal Express [ ] UPS [ ] Hand [ ] _____			Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3804-WL	Analyzed:	03-05-07 15:06	Analyzed:	03-05-07 15:43
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	5	5.4	107 %	5	5.1	101 %	6 %	70 - 130 %	25%
74-87-3	Chloromethane	5	4.3	86 %	5	4.6	91 %	6 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	5	5.1	101 %	5	5	100 %	2 %	70 - 130 %	25%
74-83-9	Bromomethane	5	5.5	109 %	5	5.3	105 %	4 %	70 - 130 %	25%
75-00-3	Chloroethane	5	5.1	102 %	5	5.1	101 %	1 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	5	5.9	118 %	5	5.5	110 %	6 %	70 - 130 %	25%
60-29-7	Diethyl Ether	10	9.3	93 %	10	7.9	79 %	16 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	5	5.4	108 %	5	5.4	107 %	0 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	10	10	104 %	10	10	103 %	1 %	70 - 130 %	25%
67-64-1	Acetone	10	12	123 %	10	7.1	71 %	54 % q	70 - 130 %	25%
75-15-0	Carbon Disulfide	10	7.7	77 %	10	7.5	75 %	3 %	70 - 130 %	25%
75-09-2	Methylene Chloride	5	7	140 % q	5	7	139 % q	1 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	5	5.3	106 %	5	5	100 %	6 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	5	4.9	98 %	5	4.4	87 %	12 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	5	5.1	102 %	5	4.9	97 %	5 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	5	5.1	101 %	5	4.5	90 %	12 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	5	5.3	106 %	5	5.1	101 %	5 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	10	8.5	85 %	10	8.4	84 %	2 %	70 - 130 %	25%
74-97-5	Bromochloromethane	5	5.7	114 %	5	4.8	96 %	17 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	10	8.9	89 %	10	7.5	75 %	17 %	70 - 130 %	25%
67-66-3	Chloroform	5	5.1	102 %	5	4.9	98 %	4 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	5	5	99 %	5	4.8	95 %	4 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	5	5	100 %	5	5	99 %	1 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	5	4.8	96 %	5	4.5	90 %	7 %	70 - 130 %	25%
71-43-2	Benzene	5	4.8	96 %	5	4.8	95 %	1 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	5	4.9	99 %	5	4.5	89 %	10 %	70 - 130 %	25%
79-01-6	Trichloroethene	5	5.1	102 %	5	4.9	98 %	4 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	5	4.9	99 %	5	4.6	93 %	6 %	70 - 130 %	25%
74-95-3	Dibromomethane	5	5.2	103 %	5	4.7	95 %	8 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	5	5.2	103 %	5	5.1	102 %	1 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	100	130	128 %	100	110	106 %	19 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	5	4.8	96 %	5	4.9	97 %	1 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	10	9.6	96 %	10	7.7	77 %	22 %	70 - 130 %	25%
108-88-3	Toluene	5	5	99 %	5	4.9	99 %	1 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	5	4.9	98 %	5	4.6	92 %	6 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	5	5.4	108 %	5	4.9	97 %	11 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	5	5.7	115 %	5	5.7	113 %	1 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	5	5.2	104 %	5	4.7	95 %	9 %	70 - 130 %	25%
591-78-6	2-Hexanone	10	9.6	96 %	10	7.7	77 %	23 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	5	5.8	116 %	5	5.6	111 %	4 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	5	5.6	112 %	5	5.1	102 %	10 %	70 - 130 %	25%
108-90-7	Chlorobenzene	5	5.4	108 %	5	5.4	108 %	0 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	5	5.6	113 %	5	5.4	107 %	5 %	70 - 130 %	25%
100-41-4	Ethylbenzene	5	5.4	107 %	5	5.3	106 %	1 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	10	11	107 %	10	11	107 %	0 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	5	5.5	109 %	5	5.4	107 %	2 %	70 - 130 %	25%
100-42-5	Styrene	5	5.5	110 %	5	5.2	103 %	7 %	70 - 130 %	25%
75-25-2	Bromoform	5	6	120 %	5	5.5	109 %	9 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	5	4.4	88 %	5	4.5	91 %	2 %	70 - 130 %	25%

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3804-WL	Analyzed:	03-05-07 15:06	Analyzed:	03-05-07 15:43
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	5	5.1	102 %	5	5.1	102 %	0 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	5	4.7	93 %	5	4.2	84 %	10 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	5	5.2	103 %	5	5	100 %	3 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	5	4.5	90 %	5	4.7	93 %	4 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	5	4.6	93 %	5	4.9	98 %	5 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	5	4.6	92 %	5	4.7	94 %	3 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	5	4.8	95 %	5	4.8	95 %	0 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	5	4.6	92 %	5	4.7	94 %	2 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	5	4.8	97 %	5	4.8	96 %	0 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	5	4.7	93 %	5	4.7	93 %	0 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	5	5	99 %	5	4.9	98 %	1 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	5	4.8	96 %	5	4.9	98 %	2 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	5	4.8	96 %	5	4.8	97 %	1 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	5	5	99 %	5	4.9	97 %	2 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	5	4.6	92 %	5	4.8	96 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	5	4.5	90 %	5	3.6	72 %	22 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	5	5.3	105 %	5	5.1	101 %	3 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	5	5.3	105 %	5	5.1	103 %	2 %	70 - 130 %	25%
91-20-3	Naphthalene	5	4.8	97 %	5	4.4	88 %	10 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	5	5.1	103 %	5	4.9	98 %	5 %	70 - 130 %	25%
75-65-0	tert-Butyl Alcohol (TBA)	100	120	119 %	100	95	95 %	22 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	5	4.6	92 %	5	4.2	84 %	10 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	5	4.7	94 %	5	4.1	81 %	15 %	70 - 130 %	25%
994-05-8	tert-Amyl Methyl Ether (TAME)	5	4.7	95 %	5	4.2	84 %	12 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	113 %	10	11	113 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	97 %	10	9.5	95 %	70 - 130 %
Toluene-d_8	10	10	104 %	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	10	9.5	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3804-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 03-05-07 16:18
Analyst: KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3804-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 03-05-07 16:18
Analyst: KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	sec-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	12	117 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.6	96 %	70 - 130 %
Toluene-d_8	10	11	108 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996)
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3805-WL	Analyzed:	03-06-07 11:24	Analyzed:	03-06-07 11:53
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	9.7	97 %	10	8.2	82 %	17 %	70 - 130 %	25%
74-87-3	Chloromethane	10	8.7	87 %	10	7.8	78 %	11 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	10	101 %	10	9	90 %	11 %	70 - 130 %	25%
74-83-9	Bromomethane	10	10	102 %	10	9.5	95 %	7 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.9	99 %	10	9.6	96 %	3 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	11	109 %	10	10	101 %	8 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	22	108 %	20	19	97 %	11 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	10	104 %	10	10	101 %	3 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	25	126 %	20	24	122 %	3 %	70 - 130 %	25%
67-64-1	Acetone	20	15	77 %	20	20	98 %	24 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	22	110 %	20	21	106 %	4 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.9	99 %	10	9.6	96 %	3 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	10	104 %	10	10	100 %	4 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	11	114 %	10	10	100 %	13 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.9	99 %	10	9.5	95 %	4 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.9	99 %	10	9.3	93 %	6 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	105 %	10	10	102 %	2 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	22	108 %	20	18	91 %	17 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	110 %	10	11	109 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	23	117 %	20	19	93 %	23 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	104 %	10	10	100 %	3 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	10	102 %	10	9.4	94 %	9 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	11	106 %	10	10	100 %	6 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.6	96 %	10	9.1	91 %	5 %	70 - 130 %	25%
71-43-2	Benzene	10	9.7	97 %	10	9.1	91 %	6 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	11	105 %	10	9.7	97 %	8 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	10	101 %	10	9.6	96 %	6 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	9.6	96 %	10	9.3	93 %	4 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	109 %	10	9.6	96 %	13 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	108 %	10	10	101 %	7 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	210	103 %	200	240	118 %	13 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	10	101 %	10	9.3	93 %	8 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	22	111 %	20	18	89 %	22 %	70 - 130 %	25%
108-88-3	Toluene	10	10	102 %	10	9.5	95 %	7 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	101 %	10	9.4	94 %	7 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	108 %	10	9.5	95 %	13 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	12	115 %	10	11	106 %	9 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	10	104 %	10	9.5	95 %	9 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	22	108 %	20	17	84 %	25 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	12	124 %	10	12	115 %	7 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	12	115 %	10	10	100 %	14 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	11	107 %	10	10	102 %	6 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	12	116 %	10	11	106 %	9 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	11	106 %	10	9.9	99 %	7 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	22	108 %	20	20	101 %	7 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	11	107 %	10	10	102 %	4 %	70 - 130 %	25%
100-42-5	Styrene	10	11	109 %	10	10	101 %	8 %	70 - 130 %	25%
75-25-2	Bromoform	10	13	126 %	10	11	111 %	13 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	8.8	88 %	10	8.7	87 %	2 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3805-WL	Analyzed:	03-06-07 11:24	Analyzed:	03-06-07 11:53
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	103 %	10	10	100 %	3 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	9.9	99 %	10	8.5	85 %	15 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	11	112 %	10	9.3	93 %	18 %	70 - 130 %	25%
103-65-1	n-Propylbenzene	10	8.9	89 %	10	9	90 %	1 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.4	94 %	10	9.1	91 %	3 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	9.2	92 %	10	9.1	91 %	1 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.2	92 %	10	9.1	91 %	1 %	70 - 130 %	25%
98-06-6	tert-Butylbenzene	10	9.2	92 %	10	9.1	91 %	2 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	9.6	96 %	10	9.5	95 %	1 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	10	9.2	92 %	10	9.1	91 %	2 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.8	98 %	10	9.7	97 %	1 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.4	94 %	10	9.3	93 %	1 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.7	97 %	10	9.6	96 %	2 %	70 - 130 %	25%
104-51-8	n-Butylbenzene	10	9.2	92 %	10	8.9	89 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	9.2	92 %	10	8.1	81 %	14 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	10	103 %	10	10	100 %	3 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	10	102 %	10	10	103 %	1 %	70 - 130 %	25%
91-20-3	Naphthalene	10	10	101 %	10	9.2	92 %	9 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	105 %	10	9.9	99 %	6 %	70 - 130 %	25%
75-65-0	tert-Butyl Alcohol (TBA)	200	280	140 % q	200	220	110 %	24 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.9	89 %	10	8.7	87 %	3 %	70 - 130 %	25%
637-92-3	Ethyl tert-butyl Ether (ETBE)	10	8.9	89 %	10	8.6	86 %	4 %	70 - 130 %	25%
994-05-8	tert-Amyl Methyl Ether (TAME)	10	9.7	97 %	10	8.4	84 %	13 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	113 %	10	11	113 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	108 %	10	9.5	95 %	70 - 130 %
Toluene-d_8	10	11	108 %	10	11	108 %	70 - 130 %
4-Bromofluorobenzene	10	8.9	89 %	10	9.3	93 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3805-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 03-06-07 12:22
Analyst: KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3805-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 03-06-07 12:22
Analyst: KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	110 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental_Lab/out_state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt_list_aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph_lab/documents/certified_labs.pdf

GROUNDWATER ANALYTICAL

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March 12, 2007

Mr. Jon Aisner
WEB Engineering
106 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical Corporation/04-E-037**
Lab ID: **104384**
Received: **02-26-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/ajh
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: General Chemical Corporation/04-E-037
Client: WEB Engineering
Lab ID: 104384

Delivery: GWA Courier
Airbill: n/a
Lab Receipt: 02-26-07

Temperature: 2'C
Chain of Custody: Present
Custody Seal(s): n/a

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104384-1	WMW-1S		Aqueous	2/22/07 10:29	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C821921	40 mL VOA Vial	Proline	BX22463	HCL	R-4913G	07-17-06	n/a		
C821920	40 mL VOA Vial	Proline	BX22463	HCL	R-4913G	07-17-06	n/a		
C821908	40 mL VOA Vial	Proline	BX22463	HCL	R-4913G	07-17-06	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104384-2	WMW-4		Aqueous	2/22/07 11:27	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C896855	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a		
C876858	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876852	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104384-3	WMW-6		Aqueous	2/22/07 12:22	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C896843	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a		
C896822	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a		
C896810	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104384-4	WMW-5		Aqueous	2/22/07 13:22	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C821923	40 mL VOA Vial	Proline	BX22463	HCL	R-4913G	07-17-06	n/a		
C821922	40 mL VOA Vial	Proline	BX22463	HCL	R-4913G	07-17-06	n/a		
C896856	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
104384-5	GZ-6		Aqueous	2/22/07 14:11	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C896845	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a		
C876828	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		
C876804	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project: General Chemical Corporation/04-E-037
Client: WEB Engineering

Lab ID: 104384
Received: 02-26-07 17:30

MA DEP Compendium of Analytical Methods

Project Location: n/a
MA DEP RTN: n/a

This Form provides certifications for the following data set:

EPA 8260B: 104384-1,-2,-3,-4,-5

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9012A[2] ( )
	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )
As specified in MA DEP Compendium of Analytical Methods: Check all that apply	1. List Release Tracking Number (RTN), if known				
	2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method				
	3. S - SW-846 Methods 7000 Series. List individual method and analyte				

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	Yes
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [signature]
Position: Operations Manager
Printed Name: Eric H. Jensen
Date: 03-12-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-1S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104384-01	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 10:29	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 18:46	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	2		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	1		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	4		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	13		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-1S	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104384-01	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 10:29	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 18:46	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	111 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	103 %	70 - 130 %
Toluene-d_8	10	10	101 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-4	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool.
Laboratory ID:	104384-02	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 11:27	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 19:14	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1,400		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	2,500		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	2,500		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	BRL		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	14,000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	11,000		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	3,800		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	6,400		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-4	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104384-02	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 11:27	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 19:14	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	106 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	97 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.5	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-6	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104384-03	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 12:22	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 19:43	Dilution Factor:	1000
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	1,300		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	14,000		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	BRL		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	31,000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	38,000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	2,800		ug/L	500
79-01-6	Trichloroethene	5,800		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	11,000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-6	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104384-03	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 12:22	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 19:43	Dilution Factor:	1000
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	111 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	105 %	70 - 130 %
Toluene-d_8	10	10	103 %	70 - 130 %
4-Bromofluorobenzene	10	8.9	89 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-5	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104384-04	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 13:22	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 20:14	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	780		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	BRL		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	15,000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	11,000		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	3,700		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	5,300		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-5	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104384-04	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 13:22	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 20:14	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	114 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.9	99 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-6	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104384-05	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 14:11	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 20:43	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	2		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	7		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	20		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	30		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	19		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	34		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-6	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104384-05	QC Batch ID:	VM4-3800-W
Sampled:	02-22-07 14:11	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-01-07 20:43	Dilution Factor:	1
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound:	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	102 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	100 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	General Chemical Corporation/04-E-037	Lab ID:	104384
Client:	WEB Engineering	Received:	02-26-07 17:30

A. Documentation and Client Communication

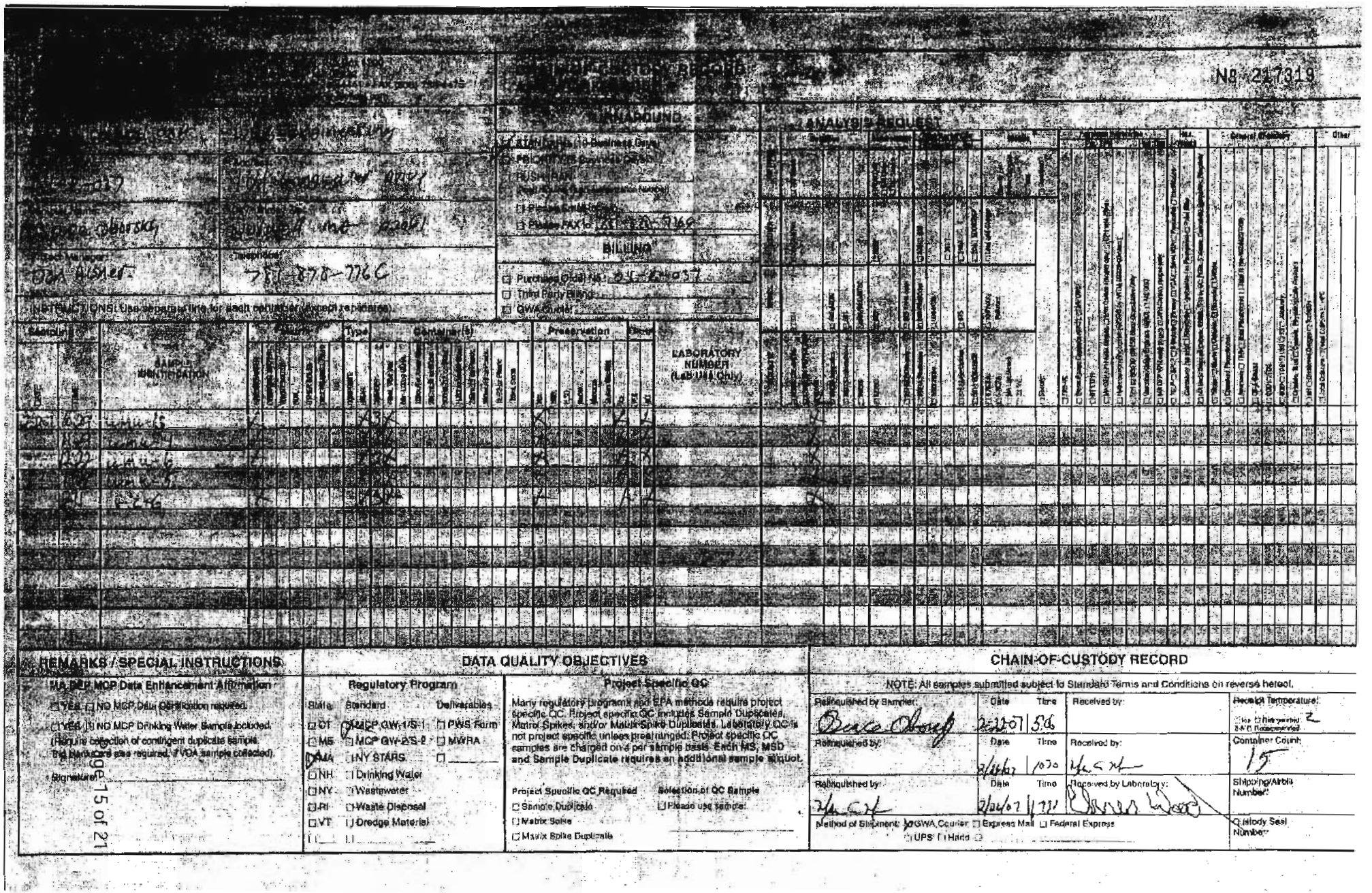
The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Note: Samples 104384-02 through -04. Sample were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.



N8 217319

TURNAROUND

ANALYSIS REQUEST

BILLING

(INSTRUCTIONS: Use separate line for each container/preservative)

Matrix	SAMPLE IDENTIFICATION	Date	Time	Type	Container(s)	Preservation	Other	LABORATORY NUMBER (Lab Use Only)

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation

☐ YES ☐ NO MCP Data Certification required.

☐ YES ☐ NO MCP Drinking Water Sample Included. (Requires collection of contingent duplicate sample. Trip Blank(s) are required if VOA sample collected).

Signature:

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ MS	☐ MCP GW-2/S-2	☐ MWRA
☐ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless pre-arranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
☐ Sample Duplicate	☐ Please use sample: _____
☐ Matrix Spike	
☐ Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time		
Relinquished by Sampler: Bruce Hoff	2/2/07	5:16	Received by:	Receipt Temperature: 2 °C ☐ Ice ☐ Blue Ice ☐ Dry Ice ☐ Non-preserved
Relinquished by:	Date	Time	Received by:	Container Count: 15
Relinquished by:	2/2/07	1030	Received by Laboratory:	Shipping/Airbill Number:
Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____	2/2/07	1111		☐ Body Seal Number:

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Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3800-WL	Analyzed:	03-01-07 10:02	Analyzed:	03-01-07 10:32
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	11	109 %	10	11	110 %	0 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9	90 %	10	9.9	99 %	9 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	9.8	98 %	10	11	109 %	11 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.5	95 %	10	11	107 %	11 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.7	97 %	10	11	108 %	11 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	10	102 %	10	11	114 %	11 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	86 %	20	17	85 %	1 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	10	101 %	10	11	113 %	12 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	21	104 %	20	22	111 %	7 %	70 - 130 %	25%
67-64-1	Acetone	20	20	100 %	20	21	104 %	3 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	17	87 %	20	20	99 %	13 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.3	93 %	10	9.3	93 %	1 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.5	95 %	10	10	105 %	9 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	9	90 %	10	8.9	89 %	1 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.4	94 %	10	10	100 %	6 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.1	91 %	10	9.9	99 %	8 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	9.8	98 %	10	11	106 %	8 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	17	83 %	20	16	79 %	5 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	16	78 %	20	15	76 %	2 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.5	95 %	10	10	102 %	7 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9	90 %	10	9.6	96 %	6 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.3	93 %	10	10	104 %	11 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	8.8	88 %	10	9.4	94 %	6 %	70 - 130 %	25%
71-43-2	Benzene	10	9	90 %	10	9.6	96 %	6 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.2	92 %	10	9.2	92 %	1 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.4	94 %	10	10	102 %	8 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	9.2	92 %	10	9.5	95 %	4 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	9.8	98 %	10	10	102 %	4 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	230	116 %	200	210	107 %	8 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	9.3	93 %	10	9.8	98 %	5 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	16	81 %	20	16	82 %	1 %	70 - 130 %	25%
108-88-3	Toluene	10	9.5	95 %	10	9.9	99 %	5 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.2	92 %	10	9.3	93 %	1 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.5	95 %	10	9.4	94 %	1 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	10	104 %	10	11	114 %	10 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	9.2	92 %	10	9.4	94 %	2 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	16	80 %	20	16	82 %	2 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	112 %	10	12	115 %	3 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	9.9	99 %	10	10	100 %	2 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	100 %	10	11	107 %	6 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	11	107 %	10	11	111 %	4 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.9	99 %	10	11	106 %	7 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	101 %	20	21	107 %	7 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	100 %	10	11	109 %	9 %	70 - 130 %	25%
100-42-5	Styrene	10	10	101 %	10	11	107 %	6 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	112 %	10	12	116 %	4 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	8.4	84 %	10	9.1	91 %	8 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3800-WL	Analyzed:	03-01-07 10:02	Analyzed:	03-01-07 10:32
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.6	96 %	10	10	101 %	5 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	8.2	82 %	10	8.3	83 %	1 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	8.9	89 %	10	9.3	93 %	4 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	8.6	86 %	10	9.3	93 %	7 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.1	91 %	10	9.7	97 %	6 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	9	90 %	10	9.5	95 %	6 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9	90 %	10	9.8	98 %	8 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9	90 %	10	9.5	95 %	6 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	9.3	93 %	10	10	100 %	7 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	8.7	87 %	10	9.5	95 %	8 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.4	94 %	10	9.8	98 %	4 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.1	91 %	10	9.9	99 %	8 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.2	92 %	10	9.9	99 %	6 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	8.8	88 %	10	9.4	94 %	7 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	7.9	79 %	10	7.9	79 %	1 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.6	96 %	10	10	101 %	5 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.6	96 %	10	11	109 %	12 %	70 - 130 %	25%
91-20-3	Naphthalene	10	8.9	89 %	10	9.1	91 %	3 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	9.2	92 %	10	9.6	96 %	4 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	210	106 %	200	210	103 %	4 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.2	82 %	10	9.1	91 %	10 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	8.4	84 %	10	8.8	88 %	4 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	8.5	85 %	10	8.4	84 %	0 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	11	108 %	10	11	112 %		70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	97 %	10	9.3	93 %		70 - 130 %
Toluene-d_8	10	11	107 %	10	11	106 %		70 - 130 %
4-Bromofluorobenzene	10	9.3	93 %	10	9.3	93 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3800-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 03-01-07 11:03
Analyst: KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/l	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3800-WB	Analyzed:	03-01-07 11:03
Matrix:	Aqueous	Analyst:	KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	111 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.4	94 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.6	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental_Lab/out_state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt_list_aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph_lab/documents/certified_labs.pdf

GROUNDWATER ANALYTICAL

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Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

November 28, 2007

Mr. Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-037**
Lab ID: **112507**
Received: **11-08-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E Raymond

Karyn E. Raymond
Project Manager

KER/elm
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name: General Chemical
Project Number: 04-E-037
Scheduled Due Date: 11-26-07

Laboratory Number: 112507

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 11-08-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
112507-1	SW-3	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-2	SW-DSC-1	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-3	SW-USA-1	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-4	PZ-1D	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-5	WMW-4	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-6	GZ-7R	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-7	GZ-7	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-8	WMW-5	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-9	GZ-2	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates

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Notes:

1. Project 112507 was received at a temperature of 5.3 C.

Results will be mailed to: Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please send email to clientservices@groundwateranalytical.com or call 508-759-4441 and ask to speak to a Project Manager.

Your project is scheduled for completion on 11-26-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact a Project Manager to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical/04-E-037**
Client: **WEB Engineering**
Lab ID: **112507**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **11-08-07**

Temperature: **5.3'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-1	SW-3		Aqueous	11/7/07 8:27	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C949012	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949002	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949001	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-2	SW-DSC-1		Aqueous	11/7/07 8:38	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C949031	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949011	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949000	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-3	SW-USA-1		Aqueous	11/7/07 8:50	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C949021	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949020	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949010	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-4	PZ-1D		Aqueous	11/7/07 9:29	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C949050	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-5	WMW-4		Aqueous	11/7/07 11:21	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C949060	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949051	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949041	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-6	GZ-7R		Aqueous	11/7/07 12:34	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C949090	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949080	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949070	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-7	GZ-7		Aqueous	11/7/07 13:16	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C949081	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949071	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949061	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-8	WMW-5		Aqueous	11/7/07 14:20	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C949091	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949042	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949032	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	General Chemical/04-E-037	Delivery:	GWA Courier	Temperature:	5.3'C
Client:	WEB Engineering	Airbill:	n/a	Chain of Custody:	Present
Lab ID:	112507	Lab Receipt:	11-08-07	Custody Seal(s):	n/a

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112507-9	GZ-2		Aqueous	11/7/07 16:08	EPA 82608 Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C949049	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07		
C949048	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07		
C949039	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07		

GROUNDWATER ANALYTICAL

Data Certification

Project: **General Chemical/04-E-037** Lab ID: **112507**
Client: **WEB Engineering** Received: **11-08-07 14:45**

MA DEP Compendium of Analytical Methods

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8260B: 112507-1,-2,-3,-4,-5,-6,-7,-8,-9

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020A ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S - SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data*?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	No
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Karyn E Raymond Position: Project Manager

Printed Name: Karyn E. Raymond Date: 11-28-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	SW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-01	QC Batch ID:	VM5-3663-W
Sampled:	11-07-07 08:27	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 11:49	Dilution Factor:	5
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	BRL		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	13		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	5		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	6		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	SW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-01	QC Batch ID:	VMS-3663-W
Sampled:	11-07-07 08:27	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 11:49	Dilution Factor:	5
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.0	90 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.6	96 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	10	102 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	SW-DSC-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-02	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 08:38	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 01:04	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	BRL		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	5		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	BRL		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	BRL		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**SW-DSC-1**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**112507-02**	QC Batch ID:	**VM5-3662-W**
Sampled:	**11-07-07 08:38**	Instrument ID:	**MS-5 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-21-07 01:04**	Dilution Factor:	**5**
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.9	**89** %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	**92** %	70 - 130 %
Toluene-d_8	10	9.1	**91** %	70 - 130 %
4-Bromofluorobenzene	10	10	**100** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	SW-USA-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-03	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 08:50	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 01:44	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	BRL		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	5		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	BRL		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	3		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	SW-USA-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-03	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 08:50	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 01:44	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.9	89 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	92 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	10	100 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	PZ-1D	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-04	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 09:29	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 02:25	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	BRL		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	BRL		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	BRL		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**PZ-1D**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**112507-04**	QC Batch ID:	**VM5-3662-W**
Sampled:	**11-07-07 09:29**	Instrument ID:	**MS-5 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-21-07 02:25**	Dilution Factor:	**5**
Analyst:	**CCT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.9	**89** %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.4	**94** %	70 - 130 %
Toluene-d_8	10	8.9	**89** %	70 - 130 %
4-Bromofluorobenzene	10	10	**100** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-4	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-05	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 11:21	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 03:05	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	1,200		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	BRL		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	29,000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	15,000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	3,200		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	7,900		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-4	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-05	QC Batch ID:	VMS-3662-W
Sampled:	11-07-07 11:21	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 03:05	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.0	90 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.9	89 %	70 - 130 %
Toluene-d_8	10	9.0	90 %	70 - 130 %
4-Bromofluorobenzene	10	9.8	98 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-7R	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-06	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 12:34	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 03:45	Dilution Factor:	10
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	5
74-87-3	Chloromethane	BRL		ug/L	5
75-01-4	Vinyl Chloride	BRL		ug/L	5
74-83-9	Bromomethane	BRL		ug/L	5
75-00-3	Chloroethane	BRL		ug/L	5
75-69-4	Trichlorofluoromethane	BRL		ug/L	5
60-29-7	Diethyl Ether	BRL		ug/L	20
75-35-4	1,1-Dichloroethene	18		ug/L	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	50
67-64-1	Acetone	BRL		ug/L	100
75-15-0	Carbon Disulfide	BRL		ug/L	50
75-09-2	Methylene Chloride	BRL		ug/L	25
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	5
75-34-3	1,1-Dichloroethane	BRL		ug/L	5
594-20-7	2,2-Dichloropropane	BRL		ug/L	5
156-59-2	*cis*-1,2-Dichloroethene	140		ug/L	5
78-93-3	2-Butanone (MEK)	BRL		ug/L	50
74-97-5	Bromochloromethane	BRL		ug/L	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	50
67-66-3	Chloroform	BRL		ug/L	5
71-55-6	1,1,1-Trichloroethane	170		ug/L	5
56-23-5	Carbon Tetrachloride	BRL		ug/L	5
563-58-6	1,1-Dichloropropene	BRL		ug/L	5
71-43-2	Benzene	BRL		ug/L	5
107-06-2	1,2-Dichloroethane	BRL		ug/L	5
79-01-6	Trichloroethene	92		ug/L	5
78-87-5	1,2-Dichloropropane	BRL		ug/L	5
74-95-3	Dibromomethane	BRL		ug/L	5
75-27-4	Bromodichloromethane	BRL		ug/L	5
123-91-1	1,4-Dioxane	BRL		ug/L	5000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	50
108-88-3	Toluene	BRL		ug/L	5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	5
127-18-4	Tetrachloroethene	410		ug/L	5
142-28-9	1,3-Dichloropropane	BRL		ug/L	5
591-78-6	2-Hexanone	BRL		ug/L	50
124-48-1	Dibromochloromethane	BRL		ug/L	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	5
108-90-7	Chlorobenzene	BRL		ug/L	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	5
100-41-4	Ethylbenzene	BRL		ug/L	5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	5
95-47-6	*ortho*-Xylene	BRL		ug/L	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-7R	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-06	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 12:34	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 03:45	Dilution Factor:	10
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	5
75-25-2	Bromoform	BRL		ug/L	5
98-82-8	Isopropylbenzene	BRL		ug/L	5
108-86-1	Bromobenzene	BRL		ug/L	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	5
103-65-1	n-Propylbenzene	BRL		ug/L	5
95-49-8	2-Chlorotoluene	BRL		ug/L	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	5
106-43-4	4-Chlorotoluene	BRL		ug/L	5
98-06-6	tert-Butylbenzene	BRL		ug/L	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	5
135-98-8	sec-Butylbenzene	BRL		ug/L	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	5
99-87-6	4-Isopropyltoluene	BRL		ug/L	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	5
104-51-8	n-Butylbenzene	BRL		ug/L	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	5
87-68-3	Hexachlorobutadiene	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	5
75-65-0	tert-Butyl Alcohol (TBA)	BRL		ug/L	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	5
637-92-3	Ethyl tert-butyl Ether (ETBE)	BRL		ug/L	5
994-05-8	tert-Amyl Methyl Ether (TAME)	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.0	90 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.1	91 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	9.9	99 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**GZ-2**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**112507-09**	QC Batch ID:	**VM5-3662-W**
Sampled:	**11-07-07 16:08**	Instrument ID:	**MS-5 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-21-07 05:46**	Dilution Factor:	**5**
Analyst:	**CCT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	4		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	43		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	38		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	20		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	52		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-09	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 16:08	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 05:46	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.1	91 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.5	95 %	70 - 130 %
Toluene-d_8	10	9.0	90 %	70 - 130 %
4-Bromofluorobenzene	10	9.6	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical/04-E-037**	Lab ID:	**112507**
Client:	**WEB Engineering**	Received:	**11-08-07 14:45**

A. Documentation and Client Communication

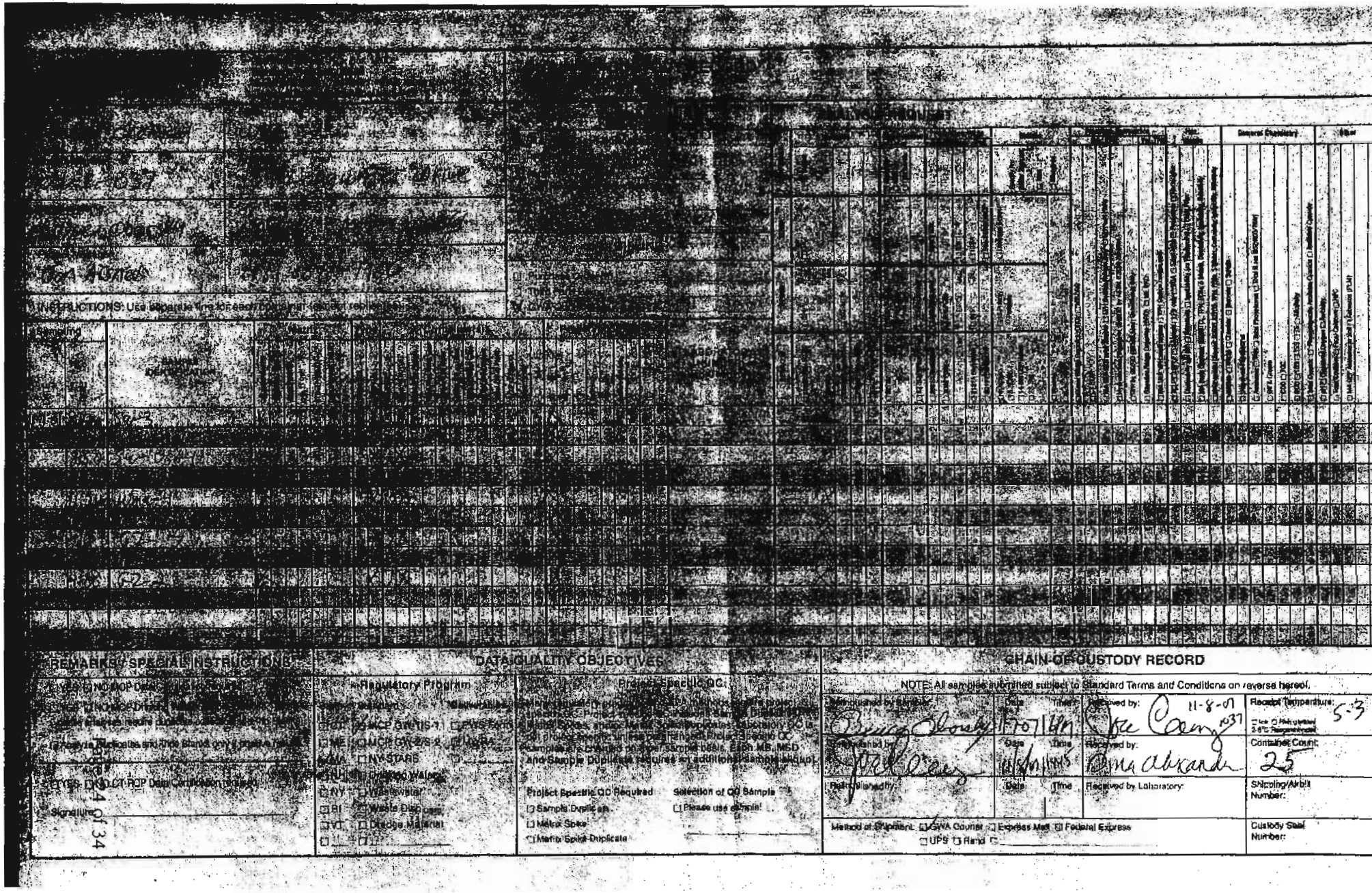
The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Samples 112507-02 through -09. Laboratory control sample (LCS) analyte Acetone was below recommended recovery limits for QC batch VM5-3662-W.
2. EPA 8260B Note: Sample 112507-01, -02, -03, -04 and -09. Samples were diluted prior to analysis. Dilution was required due to observed foaming characteristics of sample. Sample foaming interferes with purge and trap sample concentration.
3. EPA 8260B Note: Samples 112507-01, -06, -07 and -08. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.



REMARKS/SPECIAL INSTRUCTIONS

DATA QUALITY OBJECTIVES

Regulatory Program

Project Specific QC

CHAIN OF CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler: — Date: 11-07 — Time: 4PM — Received by: — Date: 11-8-07 — Receipt Temperature: 5-3

Relinquished by: — Date: 11/8/07 — Time: 1115 — Received by: — Container Count: 25

Relinquished by: — Date: — Time: — Received by Laboratory: — Shipping/Airbill Number:

Method of Shipment: GWA Courier; Express Mail; Federal Express; UPS; Hand — Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3662-WL	Analyzed:	11-20-07 11:11	Analyzed:	11-20-07 11:51
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.7	87 %	10	8.5	85 %	2 %	70 - 130 %	25%
74-87-3	Chloromethane	10	10	100 %	10	10	103 %	3 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	9	90 %	10	8.9	89 %	1 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.5	95 %	10	9.5	95 %	0 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.7	97 %	10	9.9	99 %	2 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	9.2	92 %	10	9.3	93 %	1 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	19	95 %	20	19	96 %	0 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	9.7	97 %	10	9.7	97 %	1 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	15	76 %	20	16	78 %	2 %	70 - 130 %	25%
67-64-1	Acetone	20	11	57 % q	20	12	59 % q	3 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	17	86 %	20	17	87 %	2 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	10	104 %	10	10	104 %	0 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.5	95 %	10	10	101 %	6 %	70 - 130 %	25%
1634-04-4	Methyl tert-butyl Ether (MTBE)	10	11	108 %	10	11	108 %	0 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	10	100 %	10	10	102 %	2 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	11	106 %	10	10	104 %	1 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	102 %	10	11	106 %	4 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	17	84 %	20	17	84 %	1 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	107 %	10	11	110 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	24	118 %	20	23	117 %	1 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.5	95 %	10	9.7	97 %	1 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.1	91 %	10	9.4	94 %	4 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
71-43-2	Benzene	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.5	95 %	10	9.7	97 %	2 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	104 %	10	11	105 %	1 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	110 %	10	11	111 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	107 %	10	11	110 %	3 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	170	86 %	200	180	91 %	5 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	11	107 %	10	11	107 %	0 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	22	108 %	20	21	103 %	4 %	70 - 130 %	25%
108-88-3	Toluene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	101 %	10	10	105 %	4 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.1	91 %	10	9.6	96 %	5 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	107 %	10	11	108 %	2 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	17	83 %	20	17	83 %	0 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	108 %	10	11	110 %	2 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	10	105 %	10	11	108 %	3 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	100 %	10	10	103 %	3 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	104 %	10	11	106 %	2 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.9	99 %	10	10	103 %	4 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	99 %	20	21	104 %	4 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	100 %	10	10	104 %	3 %	70 - 130 %	25%
100-42-5	Styrene	10	10	103 %	10	11	107 %	4 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	114 %	10	12	116 %	2 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	10	103 %	10	11	106 %	3 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3662-WL	Analyzed:	11-20-07 11:11	Analyzed:	11-20-07 11:51
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	11	108 %	10	10	104 %	3 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	12	120 %	10	12	120 %	0 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	9.9	99 %	10	10	102 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.9	99 %	10	10	101 %	2 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9.7	97 %	10	9.8	98 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	107 %	10	11	108 %	1 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	9.6	96 %	10	9.8	98 %	2 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	10	102 %	10	10	103 %	0 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	10	100 %	10	10	102 %	1 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	10	103 %	10	10	105 %	1 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	10	104 %	10	10	103 %	1 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	12	115 %	10	10	105 %	10 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	108 %	10	11	109 %	0 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.3	93 %	10	9.4	94 %	1 %	70 - 130 %	25%
91-20-3	Naphthalene	10	11	115 %	10	11	111 %	4 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	111 %	10	11	108 %	2 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	200	100 %	200	210	106 %	5 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.8	98 %	10	10	100 %	1 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.9	99 %	10	9.8	98 %	1 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	12	115 %	10	11	112 %	3 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	8.6	86 %	10	8.2	82 %		70 - 130 %
1,2-Dichloroethane-d_4	10	8.7	87 %	10	8.3	83 %		70 - 130 %
Toluene-d_8	10	9	90 %	10	8.9	89 %		70 - 130 %
4-Bromofluorobenzene	10	11	107 %	10	11	106 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM5-3662-WB
Matrix: Aqueous

Instrument ID: MS-5 HP 6890
Analyzed: 11-20-07 14:06
Analyst: DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3662-WB	Analyzed:	11-20-07 14:06
Matrix:	Aqueous	Analyst:	DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.5	85 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.2	82 %	70 - 130 %
Toluene-d_8	10	8.9	89 %	70 - 130 %
4-Bromofluorobenzene	10	11	107 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VMS-3663-WL	Analyzed:	11-21-07 08:47	Analyzed:	11-21-07 09:28
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	7.4	74 %	10	8.4	84 %	13 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.3	93 %	10	10	104 %	11 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	8.2	82 %	10	9.1	91 %	10 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.3	93 %	10	10	100 %	7 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.3	93 %	10	10	101 %	8 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	8.8	88 %	10	9.3	93 %	6 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	18	89 %	20	18	91 %	2 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	9.1	91 %	10	9.7	97 %	6 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	14	71 %	20	14	71 %	1 %	70 - 130 %	25%
67-64-1	Acetone	20	10	52 % q	20	11	54 % q	4 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	16	82 %	20	17	85 %	3 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	11	106 %	10	10	104 %	2 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.4	94 %	10	9.5	95 %	2 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	10	103 %	10	10	104 %	1 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.8	98 %	10	10	100 %	2 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	10	101 %	10	10	102 %	0 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	102 %	10	10	103 %	1 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	17	84 %	20	16	81 %	4 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	107 %	10	11	105 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	22	112 %	20	22	112 %	0 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	100 %	10	10	101 %	1 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.3	93 %	10	9.5	95 %	3 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	8.8	88 %	10	9.1	91 %	3 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9	90 %	10	9.4	94 %	3 %	70 - 130 %	25%
71-43-2	Benzene	10	9.8	98 %	10	10	102 %	3 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	10	104 %	10	10	105 %	1 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.4	94 %	10	9.6	96 %	2 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	101 %	10	10	104 %	3 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	109 %	10	11	107 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	107 %	10	11	109 %	2 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	170	85 %	200	170	87 %	2 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	10	105 %	10	10	105 %	0 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	21	103 %	20	20	102 %	1 %	70 - 130 %	25%
108-88-3	Toluene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	111 %	10	11	110 %	1 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.4	94 %	10	9.6	96 %	2 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	109 %	10	11	113 %	4 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	17	84 %	20	17	85 %	1 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	111 %	10	11	113 %	1 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	109 %	10	11	112 %	3 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	103 %	10	11	106 %	2 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	105 %	10	11	108 %	3 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	10	102 %	10	11	106 %	4 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	102 %	20	21	106 %	3 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	102 %	10	11	107 %	4 %	70 - 130 %	25%
100-42-5	Styrene	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
75-25-2	Bromoform	10	12	116 %	10	12	119 %	3 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	11	107 %	10	11	111 %	4 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3663-WL	Analyzed:	11-21-07 08:47	Analyzed:	11-21-07 09:28
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	11	108 %	10	11	112 %	3 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	11	110 %	10	11	109 %	1 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	13	126 %	10	13	126 %	0 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	10	102 %	10	11	107 %	4 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	10	102 %	10	11	107 %	5 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	11	106 %	10	11	109 %	3 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9.9	99 %	10	10	105 %	5 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	110 %	10	11	115 %	5 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	10	100 %	10	10	104 %	4 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	11	106 %	10	11	110 %	3 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	10	105 %	10	11	109 %	4 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	11	109 %	10	11	112 %	2 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	10	103 %	10	11	108 %	4 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	12	122 %	10	11	112 %	8 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	112 %	10	12	116 %	3 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.5	95 %	10	9.9	99 %	5 %	70 - 130 %	25%
91-20-3	Naphthalene	10	11	114 %	10	12	120 %	5 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	115 %	10	12	116 %	1 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	210	104 %	200	200	98 %	5 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DiPE)	10	9.2	92 %	10	9.2	92 %	0 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	11	108 %	10	11	110 %	2 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	9	90 %	10	8.9	89 %		70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	92 %	10	9.1	91 %		70 - 130 %
Toluene-d_8	10	9	90 %	10	9	90 %		70 - 130 %
4-Bromofluorobenzene	10	9.8	98 %	10	9.8	98 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: **EPA Method 8260B**
QC Batch ID: **VMS-3663-WB**
Matrix: **Aqueous**

Instrument ID: **MS-5 HP 6890**
Analyzed: **11-21-07 10:53**
Analyst: **DGM**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM5-3663-WB
Matrix: Aqueous

Instrument ID: MS-5 HP 6890
Analyzed: 11-21-07 10:53
Analyst: DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.1	91 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.3	93 %	70 - 130 %
Toluene-d_8	10	9.3	93 %	70 - 130 %
4-Bromofluorobenzene	10	10	101 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

GROUNDWATER ANALYTICAL

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November 19, 2007

Mr. Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-037**
Lab ID: **112708**
Received: **11-15-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Rush 48 Hour turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/ker
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name:	General Chemical
Project Number:	04-E-037
Scheduled Due Date:	11-19-07
Laboratory Number:	112708

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 11-15-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
112708-1	GZ-7	Aqueous	11-14-07	EPA 8260B Volatile Organics with Oxygenates

Notes:

1. Project 112708 was received at a temperature of 5.6 C.

Results will be mailed to:

Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please send email to clientservices@groundwateranalytical.com or call 508-759-4441 and ask to speak to a Project Manager.

Your project is scheduled for completion on 11-19-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact a Project Manager to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Email: clientservices@groundwateranalytical.com
Phone: 508-759-4441
Fax: 508-759-4475

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical/04-E-037**
Client: **WEB Engineering**
Lab ID: **112708**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **11-15-07**

Temperature: **5.6'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112708-1	GZ-6		Aqueous	11/14/07 16:34	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1032676	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032656	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032636	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		

GROUNDWATER ANALYTICAL

Data Certification

Project: General Chemical/04-E-037
Client: WEB Engineering

Lab ID: 112708
Received: 11-15-07 18:00

MA DEP Compendium of Analytical Methods						
Project Location: n/a				MA DEP RTN: n/a		
This Form provides certifications for the following data set: EPA 8260B: 112708-1						
Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )		
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )	
	8270C ( )	8081A ( )	VPH ( )	6020A ( )	9012A[2] ( )	
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )	
	1. List Release Tracking Number (RTN), if known.					
	2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method					
	3. S - SW-846 Methods 7000 Series List individual method and analyte.					

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	Yes
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [signature] Position: Operations Manager

Printed Name: Eric H. Jensen Date: 11-19-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-6	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112708-01	QC Batch ID:	VM7-2700-W
Sampled:	11-14-07 16:34	Instrument ID:	MS-7 HP 6890
Received:	11-15-07 18:00	Sample Volume:	25 mL
Analyzed:	11-19-07 08:11	Dilution Factor:	10
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	5
74-87-3	Chloromethane	BRL		ug/L	5
75-01-4	Vinyl Chloride	BRL		ug/L	5
74-83-9	Bromomethane	BRL		ug/L	5
75-00-3	Chloroethane	BRL		ug/L	5
75-69-4	Trichlorofluoromethane	BRL		ug/L	5
60-29-7	Diethyl Ether	BRL		ug/L	20
75-35-4	1,1-Dichloroethene	15		ug/L	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	50
67-64-1	Acetone	BRL		ug/L	100
75-15-0	Carbon Disulfide	BRL		ug/L	50
75-09-2	Methylene Chloride	BRL		ug/L	25
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	5
75-34-3	1,1-Dichloroethane	BRL		ug/L	5
594-20-7	2,2-Dichloropropane	BRL		ug/L	5
156-59-2	*cis*-1,2-Dichloroethene	260		ug/L	5
78-93-3	2-Butanone (MEK)	BRL		ug/L	50
74-97-5	Bromochloromethane	BRL		ug/L	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	50
67-66-3	Chloroform	BRL		ug/L	5
71-55-6	1,1,1-Trichloroethane	190		ug/L	5
56-23-5	Carbon Tetrachloride	BRL		ug/L	5
563-58-6	1,1-Dichloropropene	BRL		ug/L	5
71-43-2	Benzene	BRL		ug/L	5
107-06-2	1,2-Dichloroethane	BRL		ug/L	5
79-01-6	Trichloroethene	96		ug/L	5
78-87-5	1,2-Dichloropropane	BRL		ug/L	5
74-95-3	Dibromomethane	BRL		ug/L	5
75-27-4	Bromodichloromethane	BRL		ug/L	5
123-91-1	1,4-Dioxane	BRL		ug/L	5,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	50
108-88-3	Toluene	BRL		ug/L	5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	5
127-18-4	Tetrachloroethene	75		ug/L	5
142-28-9	1,3-Dichloropropane	BRL		ug/L	5
591-78-6	2-Hexanone	BRL		ug/L	50
124-48-1	Dibromochloromethane	BRL		ug/L	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	5
108-90-7	Chlorobenzene	BRL		ug/L	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	5
100-41-4	Ethylbenzene	BRL		ug/L	5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	5
95-47-6	*ortho*-Xylene	BRL		ug/L	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-6	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112708-01	QC Batch ID:	VM7-2700-W
Sampled:	11-14-07 16:34	Instrument ID:	MS-7 HP 6890
Received:	11-15-07 18:00	Sample Volume:	25 mL
Analyzed:	11-19-07 08:11	Dilution Factor:	10
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	5
75-25-2	Bromoform	BRL		ug/L	5
98-82-8	Isopropylbenzene	BRL		ug/L	5
108-86-1	Bromobenzene	BRL		ug/L	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	5
103-65-1	*n*-Propylbenzene	BRL		ug/L	5
95-49-8	2-Chlorotoluene	BRL		ug/L	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	5
106-43-4	4-Chlorotoluene	BRL		ug/L	5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	5
99-87-6	4-Isopropyltoluene	BRL		ug/L	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	5
104-51-8	*n*-Butylbenzene	BRL		ug/L	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	5
87-68-3	Hexachlorobutadiene	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	97 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	97 %	70 - 130 %
Toluene-d_8	10	10	97 %	70 - 130 %
4-Bromofluorobenzene	10	10	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical/04-E-037**	Lab ID:	**112708**
Client:	**WEB Engineering**	Received:	**11-15-07 18:00**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. Sample 112708-01 was reported as "GZ-6", per Bruce Oborsky, 11-19-07.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Note: Sample 112708-1. Sample was diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

Groundwater Analytical, Inc., P.O. Box 1200, 228 Main Street, Buzzards Bay, MA 02532

GROUNDWATER ANALYTICAL

228 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: General chemical	Firm: WEB
Project Number: 04-E-037	Address: 104 Longwater Drive
Sampler Name: Bruce Obassy.	City / State / Zip: Norwell MA 02061
Project Manager: Jon Abrel	Telephone: 781-878-7766

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ STANDARD (10 Business Days)
- ☐ PRIORITY (5 Business Days)
- ☑ RUSH (RAN- 885 - 11-19-01 AM)
  (Rush requires Pre-Approval Number)
- ☐ Please Email to: _____
- ☐ Please FAX to: _____

BILLING

- ☐ Purchase Order No.: _____
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: ☐ Lab Filtered

Volatiles: ☐ Air Bag ☐ Tedlar Bag ☐ 125 mL Amber

Semivolatiles: ☐ Acid Only ☐ Base/Neutral Only ☐ Extractable TPH

Pest/Herb/PCBs: Extractable / Volatile

Metals: Specify Filtered and/or Preserved Samples

Petroleum Hydrocarbons: Ext. TPH / Vol. TPH

Haz. Waste

General Chemistry

Other

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
11-14-01	4:30 PM	GZ-7	GROUNDWATER	COMPOSITE	3 X 40ml VOA Vials	NONE	YES	

REMARKS / SPECIAL INSTRUCTIONS

- ☐ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample included.
  (Volatile analyses require duplicate collection and Trip Blanks).
- ☐ Analyze Duplicates and Trips Blanks only if positive results.
- ☐ YES ☐ NO RCP Data Certification required.

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☑ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ _____	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
☐ Sample Duplicate	☐ Please use sample:
☐ Matrix Spike	
☐ Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler	Date	Time	Received by:	Receipt Temperature:
Bruce Obassy	11-14-01	6:15 PM	Alan Maddigan	5.6°C
Relinquished by: Alan Maddigan	11/15/01	1805	Received by: Tony Almeida	Container Count: 3
Relinquished by:	Date:	Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: ☑ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2700-W	Analyzed:	11-19-07 06:09	Analyzed:	11-19-07 06:37
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.1	81 %	10	8.2	82 %	2 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	9.1	91 %	10	10	102 %	11 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.2	92 %	10	9.9	99 %	7 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	8.9	89 %	10	8.8	88 %	1 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	18	88 %	20	18	89 %	1 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	8.1	81 %	10	8.1	81 %	1 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	19	97 %	20	19	97 %	0 %	70 - 130 %	25%
67-64-1	Acetone	20	17	86 %	20	17	83 %	4 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	19	95 %	20	19	94 %	0 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.0	90 %	10	8.0	80 %	12 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	8.6	86 %	10	8.9	89 %	3 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	10	104 %	10	11	106 %	2 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.2	92 %	10	9.2	92 %	0 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.9	99 %	10	9.5	95 %	4 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	9.4	94 %	10	9.5	95 %	1 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	20	98 %	20	20	102 %	4 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	19	97 %	20	21	106 %	9 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.5	95 %	10	9.5	95 %	1 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.0	90 %	10	8.9	89 %	1 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.3	93 %	10	9.0	90 %	4 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
71-43-2	Benzene	10	9.8	98 %	10	9.6	96 %	2 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.5	95 %	10	9.2	92 %	3 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.2	92 %	10	9.4	94 %	2 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	102 %	10	9.9	99 %	3 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	10	100 %	10	10	101 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	10	100 %	10	10	100 %	0 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	230	113 %	200	240	120 %	6 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	10	104 %	10	10	103 %	1 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	25	127 %	20	25	124 %	2 %	70 - 130 %	25%
108-88-3	Toluene	10	10	100 %	10	10	101 %	1 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	102 %	10	10	103 %	1 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	106 %	10	11	107 %	1 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.9	99 %	10	9.5	95 %	4 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	109 %	10	11	107 %	2 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	26	128 %	20	25	127 %	1 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	111 %	10	11	106 %	4 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	108 %	10	11	107 %	1 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.9	99 %	10	10	100 %	0 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	103 %	10	10	101 %	2 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	10	103 %	10	10	102 %	1 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	21	103 %	20	20	102 %	1 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	102 %	10	10	102 %	0 %	70 - 130 %	25%
100-42-5	Styrene	10	11	111 %	10	11	108 %	3 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	112 %	10	11	108 %	4 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2700-W	Analyzed:	11-19-07 06:09	Analyzed:	11-19-07 06:37
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	102 %	10	10	100 %	2 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	10	103 %	10	10	101 %	2 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	12	119 %	10	11	112 %	6 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	10	100 %	10	9.8	98 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.4	94 %	10	9.3	93 %	0 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	101 %	10	9.7	97 %	5 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9.7	97 %	10	9.6	96 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	106 %	10	10	103 %	3 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.6	96 %	10	9.4	94 %	3 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.8	98 %	10	9.5	95 %	4 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.8	98 %	10	9.5	95 %	3 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	10	100 %	10	9.7	97 %	3 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	10	101 %	10	9.7	97 %	4 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	10	101 %	10	10	100 %	1 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.5	95 %	10	9.4	94 %	1 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.0	90 %	10	8.6	86 %	5 %	70 - 130 %	25%
91-20-3	Naphthalene	10	11	106 %	10	10	103 %	2 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	10	101 %	10	10	100 %	1 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	180	91 %	200	190	96 %	6 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	10	101 %	10	10	101 %	0 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.1	91 %	10	9.2	92 %	1 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	10	101 %	10	10	100 %	2 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	90 %	10	9	92 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	100 %	10	9	95 %	70 - 130 %
Toluene-d_8	10	10	99 %	10	10	101 %	70 - 130 %
4-Bromofluorobenzene	10	10	96 %	10	10	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM7-2700-W
Matrix: Aqueous

Instrument ID: MS-7 HP 6890
Analyzed: 11-19-07 07:12
Analyst: LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2700-W	Analyzed:	11-19-07 07:12
Matrix:	Aqueous	Analyst:	LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	0.5
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	20
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	95 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	100 %	70 - 130 %
Toluene-d_8	10	10	97 %	70 - 130 %
4-Bromofluorobenzene	10	10	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor, Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health, Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health, Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
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228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

November 26, 2007

Mr. Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-037**
Lab ID: **112504**
Received: **11-08-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/ajh
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name: General Chemical
Project Number: 04-E-037
Scheduled Due Date: 11-26-07

Laboratory Number: 112504

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 11-08-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
112504-1	WMW-1S	Aqueous	11-05-07	EPA 8260B Volatile Organics with Oxygenates
112504-2	WMW-7	Aqueous	11-05-07	EPA 8260B Volatile Organics with Oxygenates
112504-3	WMW-2D	Aqueous	11-05-07	EPA 8260B Volatile Organics with Oxygenates
112504-4	WMW-2S	Aqueous	11-05-07	EPA 8260B Volatile Organics with Oxygenates
112504-5	WMW-3	Aqueous	11-05-07	EPA 8260B Volatile Organics with Oxygenates
112504-6	GZ-5S	Aqueous	11-05-07	EPA 8260B Volatile Organics with Oxygenates

Notes:

1. Project 112504 was received at a temperature of 5.3 C.

Results will be mailed to:

Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please send email to clientservices@groundwateranalytical.com or call 508-759-4441 and ask to speak to a Project Manager.

Your project is scheduled for completion on 11-26-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact a Project Manager to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Email: clientservices@groundwateranalytical.com

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical/04-E-037**
Client: **WEB Engineering**
Lab ID: **112504**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **11-08-07**

Temperature: **5.3'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112504-1	WMW-1S		Aqueous	11/5/07 9:55	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C1032620	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032610	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032600	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112504-2	WMW-7		Aqueous	11/5/07 10:37	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C1032650	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032640	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032630	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112504-3	WMW-2D		Aqueous	11/5/07 11:19	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C1032680	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032670	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032660	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112504-4	WMW-2S		Aqueous	11/5/07 12:05	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C1032690	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032611	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032601	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112504-5	WMW-3		Aqueous	11/5/07 14:26	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C1032671	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032661	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032651	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112504-6	GZ-SS		Aqueous	11/5/07 13:35	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C1032641	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032631	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032621	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

GROUNDWATER ANALYTICAL

Data Certification

Project:	General Chemical/04-E-037	Lab ID:	112504
Client:	WEB Engineering	Received:	11-08-07 14:45

MA DEP Compendium of Analytical Methods

Project Location:	n/a	MA DEP RTN:	n/a

This Form provides certifications for the following data set:

EPA 8260B: 112504-1,-2,-3,-4,-5,-6

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020A ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S - SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	Yes
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [signature] Position: Operations Manager

Printed Name: Eric H. Jessen Date: 11-26-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WMW-1S**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112504-01**	QC Batch ID:	**VM7-2700-W**
Sampled:	**11-05-07 09:55**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-19-07 11:58**	Dilution Factor:	**10**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	5
74-87-3	Chloromethane	BRL		ug/L	5
75-01-4	Vinyl Chloride	BRL		ug/L	5
74-83-9	Bromomethane	BRL		ug/L	5
75-00-3	Chloroethane	BRL		ug/L	5
75-69-4	Trichlorofluoromethane	BRL		ug/L	5
60-29-7	Diethyl Ether	BRL		ug/L	20
75-35-4	1,1-Dichloroethene	BRL		ug/L	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	50
67-64-1	Acetone	BRL		ug/L	100
75-15-0	Carbon Disulfide	BRL		ug/L	50
75-09-2	Methylene Chloride	BRL		ug/L	25
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	5
75-34-3	1,1-Dichloroethane	BRL		ug/L	5
594-20-7	2,2-Dichloropropane	BRL		ug/L	5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	5
78-93-3	2-Butanone (MEK)	BRL		ug/L	50
74-97-5	Bromochloromethane	BRL		ug/L	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	50
67-66-3	Chloroform	BRL		ug/L	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	5
56-23-5	Carbon Tetrachloride	BRL		ug/L	5
563-58-6	1,1-Dichloropropene	BRL		ug/L	5
71-43-2	Benzene	BRL		ug/L	5
107-06-2	1,2-Dichloroethane	BRL		ug/L	5
79-01-6	Trichloroethene	BRL		ug/L	5
78-87-5	1,2-Dichloropropane	BRL		ug/L	5
74-95-3	Dibromomethane	BRL		ug/L	5
75-27-4	Bromodichloromethane	BRL		ug/L	5
123-91-1	1,4-Dioxane	BRL		ug/L	5,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	50
108-88-3	Toluene	BRL		ug/L	5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	5
127-18-4	Tetrachloroethene	BRL		ug/L	5
142-28-9	1,3-Dichloropropane	BRL		ug/L	5
591-78-6	2-Hexanone	BRL		ug/L	50
124-48-1	Dibromochloromethane	BRL		ug/L	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	5
108-90-7	Chlorobenzene	BRL		ug/L	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	5
100-41-4	Ethylbenzene	BRL		ug/L	5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	5
95-47-6	*ortho*-Xylene	BRL		ug/L	5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-1S	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112504-01	QC Batch ID:	VM7-2700-W
Sampled:	11-05-07 09:55	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-19-07 11:58	Dilution Factor:	10
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	5
75-25-2	Bromoform	BRL		ug/L	5
98-82-8	Isopropylbenzene	BRL		ug/L	5
108-86-1	Bromobenzene	BRL		ug/L	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	5
103-65-1	*n*-Propylbenzene	BRL		ug/L	5
95-49-8	2-Chlorotoluene	BRL		ug/L	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	5
106-43-4	4-Chlorotoluene	BRL		ug/L	5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	5
135-98-8	sec-Butylbenzene	BRL		ug/L	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	5
99-87-6	4-Isopropyltoluene	BRL		ug/L	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	5
104-51-8	*n*-Butylbenzene	BRL		ug/L	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	5
87-68-3	Hexachlorobutadiene	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	96 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	98 %	70 - 130 %
Toluene-d_8	10	10	96 %	70 - 130 %
4-Bromofluorobenzene	10	10	102 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-7	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112504-02	QC Batch ID:	VM7-2700-W
Sampled:	11-05-07 10:37	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-19-07 12:26	Dilution Factor:	10
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	5
74-87-3	Chloromethane	BRL		ug/L	5
75-01-4	Vinyl Chloride	BRL		ug/L	5
74-83-9	Bromomethane	BRL		ug/L	5
75-00-3	Chloroethane	BRL		ug/L	5
75-69-4	Trichlorofluoromethane	BRL		ug/L	5
60-29-7	Diethyl Ether	BRL		ug/L	20
75-35-4	1,1-Dichloroethene	BRL		ug/L	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	50
67-64-1	Acetone	BRL		ug/L	100
75-15-0	Carbon Disulfide	BRL		ug/L	50
75-09-2	Methylene Chloride	BRL		ug/L	25
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	5
75-34-3	1,1-Dichloroethane	6		ug/L	5
594-20-7	2,2-Dichloropropane	BRL		ug/L	5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	5
78-93-3	2-Butanone (MEK)	BRL		ug/L	50
74-97-5	Bromochloromethane	BRL		ug/L	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	50
67-66-3	Chloroform	BRL		ug/L	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	5
56-23-5	Carbon Tetrachloride	BRL		ug/L	5
563-58-6	1,1-Dichloropropene	BRL		ug/L	5
71-43-2	Benzene	BRL		ug/L	5
107-06-2	1,2-Dichloroethane	BRL		ug/L	5
79-01-6	Trichloroethene	BRL		ug/L	5
78-87-5	1,2-Dichloropropane	BRL		ug/L	5
74-95-3	Dibromomethane	BRL		ug/L	5
75-27-4	Bromodichloromethane	BRL		ug/L	5
123-91-1	1,4-Dioxane	BRL		ug/L	5,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	50
108-88-3	Toluene	BRL		ug/L	5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	5
127-18-4	Tetrachloroethene	BRL		ug/L	5
142-28-9	1,3-Dichloropropane	BRL		ug/L	5
591-78-6	2-Hexanone	BRL		ug/L	50
124-48-1	Dibromochloromethane	BRL		ug/L	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	5
108-90-7	Chlorobenzene	BRL		ug/L	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	5
100-41-4	Ethylbenzene	BRL		ug/L	5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	5
95-47-6	*ortho*-Xylene	BRL		ug/L	5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-7	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112504-02	QC Batch ID:	VM7-2700-W
Sampled:	11-05-07 10:37	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-19-07 12:26	Dilution Factor:	10
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	5
75-25-2	Bromoform	BRL		ug/L	5
98-82-8	Isopropylbenzene	BRL		ug/L	5
108-86-1	Bromobenzene	BRL		ug/L	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	5
103-65-1	*n*-Propylbenzene	BRL		ug/L	5
95-49-8	2-Chlorotoluene	BRL		ug/L	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	5
106-43-4	4-Chlorotoluene	BRL		ug/L	5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	5
135-98-8	sec-Butylbenzene	BRL		ug/L	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	5
99-87-6	4-Isopropyltoluene	BRL		ug/L	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	5
104-51-8	*n*-Butylbenzene	BRL		ug/L	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	5
87-68-3	Hexachlorobutadiene	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	100 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	97 %	70 - 130 %
Toluene-d_8	10	9	95 %	70 - 130 %
4-Bromofluorobenzene	10	10	97 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-2D	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112504-03	QC Batch ID:	VM7-2700-W
Sampled:	11-05-07 11:19	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-19-07 12:55	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	0.5		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	0.7		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-2D	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112504-03	QC Batch ID:	VM7-2700-W
Sampled:	11-05-07 11:19	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-19-07 12:55	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	94 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9	88 %	70 - 130 %
Toluene-d_8	10	9	92 %	70 - 130 %
4-Bromofluorobenzene	10	9	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WMW-2S**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112504-04**	QC Batch ID:	**VM7-2700-W**
Sampled:	**11-05-07 12:05**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-19-07 13:23**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	1		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	8		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	18		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-2S	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112504-04	QC Batch ID:	VM7-2700-W
Sampled:	11-05-07 12:05	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-19-07 13:23	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	94 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9	91 %	70 - 130 %
Toluene-d_8	10	9	94 %	70 - 130 %
4-Bromofluorobenzene	10	10	97 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WMW-3**	Matrix:	Aqueous
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	HCl/ Cool
Laboratory ID:	**112504-05**	QC Batch ID:	**VM7-2700-W**
Sampled:	**11-05-07 14:26**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-19-07 13:52**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	3		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	17		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	6		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	2		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	3		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	3		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	7		ug/L	0.5
95-47-6	*ortho*-Xylene	12		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112504-05	QC Batch ID:	VM7-2700-W
Sampled:	11-05-07 14:26	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-19-07 13:52	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	6		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	3		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	3		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	16		ug/L	0.5
135-98-8	*sec*-Butylbenzene	0.9		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	0.6		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	8		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	88 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9	88 %	70 - 130 %
Toluene-d_8	10	10	101 %	70 - 130 %
4-Bromofluorobenzene	10	10	98 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-5S	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112504-06	QC Batch ID:	VM7-2700-W
Sampled:	11-05-07 13:35	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-19-07 14:20	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-5S	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112504-06	QC Batch ID:	VM7-2700-W
Sampled:	11-05-07 13:35	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-19-07 14:20	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	93 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	100 %	70 - 130 %
Toluene-d_8	10	9	89 %	70 - 130 %
4-Bromofluorobenzene	10	9	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical/04-E-037**	Lab ID:	**112504**
Client:	**WEB Engineering**	Received:	**11-08-07 14:45**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Note: Samples 112504-1 and -2. Samples were diluted prior to analysis. Dilution was required due to observed foaming characteristics of sample. Sample foaming interfers with purge and trap sample concentration.

GROUNDWATER ANALYTICAL

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Buzzards Bay, MA 02532
Telephone (508) 759-4441 FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

№ 218592

Project Name: General Chemical	Firm: WEB
Project Number: 04-E-037	Address: 104 Longwater Drive
Sampler Name: Bruce Obodsky	City / State / Zip: Norwell MA 02061
Project Manager: Jon Aisner	Telephone: 781-878-7765

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- [X] STANDARD (10 Business Days)
- [ ] PRIORITY (5 Business Days)
- [ ] RUSH (RAN: _____)
  (Rush Requires Rush Authorization Number)
- [ ] Please Email to: _____
- [ ] Please FAX to: _____

BILLING

- [ ] Purchase Order No.: _____
- [ ] Third Party Billing: _____
- [X] GWA Quote: 0710-1751

ANALYSIS REQUEST

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
11-5-07	9:55	WMW-15	GROUNDWATER	COMPOSITE / GRAB	3 X	HCl	YES / NO	
	10:37	WMW-7	GROUNDWATER	GRAB	3 X	HCl		
	11:19	WMW-20	GROUNDWATER	GRAB	3 X	HCl		
	12:05	WMW-25	GROUNDWATER	GRAB	3 X	HCl		
X	~~WMW-5~~ 00	X	~~GROUNDWATER~~	~~GRAB~~	~~3 X~~	~~HCl~~		
	2:36	WMW-3	GROUNDWATER	GRAB	3 X	HCl		
	1:35	GZ-55	GROUNDWATER	GRAB	3 X	HCl		

ANALYSIS REQUEST columns: Volatiles (EPA 8260B); Semivolatiles (EPA 8270C); Pesticides/PCBs (Extractable); Metals (Specify: Total RCRA 8 Metals); Petroleum Hydrocarbons (Est. TPH; Vol. TPH); Haz. Waste; General Chemistry; Other.

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation

- [ ] YES [ ] NO MCP Data Certification required.
- [ ] YES [ ] NO MCP Drinking Water Sample included.

(Tier I requires collection of contingent duplicate sample. Trip blank/Blank also required, if VOA samples collected).

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
[ ] CT	[X] MCP GW-1/S-1	[ ] PWS Form
[ ] ME	[ ] MCP GW-2/S-2	[ ] MWRA
[X] MA	[ ] NY STARS	[ ] _____
[ ] NH	[ ] Drinking Water	
[ ] NY	[ ] Wastewater	
[ ] RI	[ ] Waste Disposal	
[ ] VT	[ ] Sludge Material	
[ ] ___	[ ] ___	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
[ ] Sample Duplicate	[ ] Please use sample: _____
[X] Matrix Spike	
[ ] Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler:	Date	Time	Received by:	Receipt Temperatures:
Bruce Obodsky	11-5-07	6PM	Joe Cleary 11/8/07 1037	5.3
Relinquished by: Joe Cleary	11/8/07	1445	Received by: DMcAlexander	Container Count: 18
Relinquished by:	Date	Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: [X] GWA Courier [ ] Express Mail [ ] Federal Express [ ] UPS [ ] Hand [ ] _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2700-W	Analyzed:	11-19-07 06:09	Analyzed:	11-19-07 06:37
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.1	81 %	10	8.2	82 %	2 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	9.1	91 %	10	10	102 %	11 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.2	92 %	10	9.9	99 %	7 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	8.9	89 %	10	8.8	88 %	1 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	18	88 %	20	18	89 %	1 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	8.1	81 %	10	8.1	81 %	1 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	19	97 %	20	19	97 %	0 %	70 - 130 %	25%
67-64-1	Acetone	20	17	86 %	20	17	83 %	4 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	19	95 %	20	19	94 %	0 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.0	90 %	10	8.0	80 %	12 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	8.6	86 %	10	8.9	89 %	3 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	10	104 %	10	11	106 %	2 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.2	92 %	10	9.2	92 %	0 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.9	99 %	10	9.5	95 %	4 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	9.4	94 %	10	9.5	95 %	1 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	20	98 %	20	20	102 %	4 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	19	97 %	20	21	106 %	9 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.5	95 %	10	9.5	95 %	1 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.0	90 %	10	8.9	89 %	1 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.3	93 %	10	9.0	90 %	4 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
71-43-2	Benzene	10	9.8	98 %	10	9.6	96 %	2 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.5	95 %	10	9.2	92 %	3 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.2	92 %	10	9.4	94 %	2 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	102 %	10	9.9	99 %	3 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	10	100 %	10	10	101 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	10	100 %	10	10	100 %	0 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	230	113 %	200	240	120 %	6 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	10	104 %	10	10	103 %	1 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	25	127 %	20	25	124 %	2 %	70 - 130 %	25%
108-88-3	Toluene	10	10	100 %	10	10	101 %	1 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	102 %	10	10	103 %	1 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	106 %	10	11	107 %	1 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.9	99 %	10	9.5	95 %	4 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	109 %	10	11	107 %	2 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	26	128 %	20	25	127 %	1 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	111 %	10	11	106 %	4 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	108 %	10	11	107 %	1 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.9	99 %	10	10	100 %	0 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	103 %	10	10	101 %	2 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	10	103 %	10	10	102 %	1 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	21	103 %	20	20	102 %	1 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	102 %	10	10	102 %	0 %	70 - 130 %	25%
100-42-5	Styrene	10	11	111 %	10	11	108 %	3 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	112 %	10	11	108 %	4 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2700-W	Analyzed:	11-19-07 06:09	Analyzed:	11-19-07 06:37
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	102 %	10	10	100 %	2 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	10	103 %	10	10	101 %	2 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	12	119 %	10	11	112 %	6 %	70 - 130 %	25%
103-65-1	n-Propylbenzene	10	10	100 %	10	9.8	98 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.4	94 %	10	9.3	93 %	0 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	101 %	10	9.7	97 %	5 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
98-06-6	tert-Butylbenzene	10	9.7	97 %	10	9.6	96 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	106 %	10	10	103 %	3 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.6	96 %	10	9.4	94 %	3 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.8	98 %	10	9.5	95 %	4 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.8	98 %	10	9.5	95 %	3 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	10	100 %	10	9.7	97 %	3 %	70 - 130 %	25%
104-51-8	n-Butylbenzene	10	10	101 %	10	9.7	97 %	4 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	10	101 %	10	10	100 %	1 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.5	95 %	10	9.4	94 %	1 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.0	90 %	10	8.6	86 %	5 %	70 - 130 %	25%
91-20-3	Naphthalene	10	11	106 %	10	10	103 %	2 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	10	101 %	10	10	100 %	1 %	70 - 130 %	25%
75-65-0	tert-Butyl Alcohol (TBA)	200	180	91 %	200	190	96 %	6 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	10	101 %	10	10	101 %	0 %	70 - 130 %	25%
637-92-3	Ethyl tert-butyl Ether (ETBE)	10	9.1	91 %	10	9.2	92 %	1 %	70 - 130 %	25%
994-05-8	tert-Amyl Methyl Ether (TAME)	10	10	101 %	10	10	100 %	2 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	9	90 %	10	9	92 %		70 - 130 %
1,2-Dichloroethane-d_4	10	10	100 %	10	9	95 %		70 - 130 %
Toluene-d_8	10	10	99 %	10	10	101 %		70 - 130 %
4-Bromofluorobenzene	10	10	96 %	10	10	96 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2700-W	Analyzed:	11-19-07 07:12
Matrix:	Aqueous	Analyst:	LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2700-W	Analyzed:	11-19-07 07:12
Matrix:	Aqueous	Analyst:	LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	0.5
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	20
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	95 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	100 %	70 - 130 %
Toluene-d_8	10	10	97 %	70 - 130 %
4-Bromofluorobenzene	10	10	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor, Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health, Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health, Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

GROUNDWATER ANALYTICAL

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FAX (508) 759-4475
www.groundwateranalytical.com

November 28, 2007

Mr. Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-037**
Lab ID: **112505**
Received: **11-08-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/elm
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name: General Chemical
Project Number: 04-E-037
Scheduled Due Date: 11-26-07

Laboratory Number: 112505

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 11-08-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
112505-1	GZA-15S	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112505-2	GZA-15D	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112505-3	GZA-15R	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112505-4	GZA-14M	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112505-5	GZA-14S	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112505-6	WMW-8S	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112505-7	GZ-19DD	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates

Notes:

1. Project 112505 was received at a temperature of 5.3 C.

Results will be mailed to: Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please send email to clientservices@groundwateranalytical.com or call 508-759-4441 and ask to speak to a Project Manager.

Your project is scheduled for completion on 11-26-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact a Project Manager to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical/04-E-037**
Client: **WEB Engineering**
Lab ID: **112505**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **11-08-07**

Temperature: **5.3'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112505-1	GZA-15S		Aqueous	11/6/07 9:58	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1032691	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032681	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032602	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112505-2	GZA-15D		Aqueous	11/6/07 10:42	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1032632	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032622	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032612	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112505-3	GZA-15R		Aqueous	11/6/07 11:11	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1032662	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032652	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032642	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112505-4	GZA-14M		Aqueous	11/6/07 12:10	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1032692	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032682	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032672	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112505-5	GZA-14S		Aqueous	11/6/07 12:45	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1032623	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032613	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032603	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112505-6	WMW-8S		Aqueous	11/6/07 13:38	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1032653	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032643	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032633	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112505-7	GZ-19DD		Aqueous	11/6/07 14:23	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1032683	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032673	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		
C1032663	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07		

GROUNDWATER ANALYTICAL

Data Certification

Project:	General Chemical/04-E-037	Lab ID:	112505
Client:	WEB Engineering	Received:	11-08-07 14:45

MA DEP Compendium of Analytical Methods

Project Location: n/a — MA DEP RTN: n/a

This Form provides certifications for the following data set:

EPA 8260B: 112505-1,-2,-3,-4,-5,-6,-7

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020A ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S - SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data*?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	No
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Karyn E Raymond — Position: Project Manager

Printed Name: Karyn E. Raymond — Date: 11-28-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-155	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-01	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 09:58	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 14:02	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl tert- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-15S	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-01	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 09:58	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 14:02	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	99 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	100 %	70 - 130 %
Toluene-d_8	10	10	97 %	70 - 130 %
4-Bromofluorobenzene	10	10	99 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-15D	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-02	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 10:42	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 14:30	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-15D	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-02	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 10:42	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 14:30	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	93 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	96 %	70 - 130 %
Toluene-d_8	10	9	95 %	70 - 130 %
4-Bromofluorobenzene	10	10	98 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-15R	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-03	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 11:11	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 14:59	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-15R	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-03	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 11:11	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 14:59	Dilution Factor:	1
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	98 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	105 %	70 - 130 %
Toluene-d_8	10	10	97 %	70 - 130 %
4-Bromofluorobenzene	10	10	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**GZA-14M**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112505-04**	QC Batch ID:	**VM7-2702-W**
Sampled:	**11-06-07 12:10**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-20-07 15:27**	Dilution Factor:	**500**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1,000
75-35-4	1,1-Dichloroethene	300		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2,500
67-64-1	Acetone	BRL		ug/L	5,000
75-15-0	Carbon Disulfide	BRL		ug/L	2,500
75-09-2	Methylene Chloride	BRL		ug/L	1,300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	470		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2,500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2,500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	300		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	3,300		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2,500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	5,900		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2,500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-14M	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-04	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 12:10	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 15:27	Dilution Factor:	500
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	99 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9	93 %	70 - 130 %
Toluene-d_8	10	10	96 %	70 - 130 %
4-Bromofluorobenzene	10	10	98 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-145	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-05	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 12:45	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 15:55	Dilution Factor:	2
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1
74-87-3	Chloromethane	BRL		ug/L	1
75-01-4	Vinyl Chloride	BRL		ug/L	1
74-83-9	Bromomethane	BRL		ug/L	1
75-00-3	Chloroethane	BRL		ug/L	1
75-69-4	Trichlorofluoromethane	BRL		ug/L	1
60-29-7	Diethyl Ether	BRL		ug/L	4
75-35-4	1,1-Dichloroethene	2		ug/L	1
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	10
67-64-1	Acetone	BRL		ug/L	20
75-15-0	Carbon Disulfide	BRL		ug/L	10
75-09-2	Methylene Chloride	BRL		ug/L	5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	1
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	1
75-34-3	1,1-Dichloroethane	BRL		ug/L	1
594-20-7	2,2-Dichloropropane	BRL		ug/L	1
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	1
78-93-3	2-Butanone (MEK)	BRL		ug/L	10
74-97-5	Bromochloromethane	BRL		ug/L	1
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10
67-66-3	Chloroform	BRL		ug/L	1
71-55-6	1,1,1-Trichloroethane	3		ug/L	1
56-23-5	Carbon Tetrachloride	BRL		ug/L	1
563-58-6	1,1-Dichloropropene	BRL		ug/L	1
71-43-2	Benzene	BRL		ug/L	1
107-06-2	1,2-Dichloroethane	BRL		ug/L	1
79-01-6	Trichloroethene	46		ug/L	1
78-87-5	1,2-Dichloropropane	BRL		ug/L	1
74-95-3	Dibromomethane	BRL		ug/L	1
75-27-4	Bromodichloromethane	BRL		ug/L	1
123-91-1	1,4-Dioxane	BRL		ug/L	1,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	1
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10
108-88-3	Toluene	BRL		ug/L	1
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	1
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1
127-18-4	Tetrachloroethene	130	e	ug/L	1
142-28-9	1,3-Dichloropropane	BRL		ug/L	1
591-78-6	2-Hexanone	BRL		ug/L	10
124-48-1	Dibromochloromethane	BRL		ug/L	1
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1
108-90-7	Chlorobenzene	BRL		ug/L	1
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1
100-41-4	Ethylbenzene	BRL		ug/L	1
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	1
95-47-6	*ortho*-Xylene	BRL		ug/L	1

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-14S	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-05	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 12:45	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 15:55	Dilution Factor:	2
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1
75-25-2	Bromoform	BRL		ug/L	1
98-82-8	Isopropylbenzene	BRL		ug/L	1
108-86-1	Bromobenzene	BRL		ug/L	1
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1
103-65-1	*n*-Propylbenzene	BRL		ug/L	1
95-49-8	2-Chlorotoluene	BRL		ug/L	1
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1
106-43-4	4-Chlorotoluene	BRL		ug/L	1
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1
135-98-8	*sec*-Butylbenzene	BRL		ug/L	1
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1
99-87-6	4-Isopropyltoluene	BRL		ug/L	1
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1
104-51-8	*n*-Butylbenzene	BRL		ug/L	1
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1
87-68-3	Hexachlorobutadiene	BRL		ug/L	1
91-20-3	Naphthalene	BRL		ug/L	1
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1
994-05-8	tert-Amyl Methyl Ether (TAME)	BRL		ug/L	1

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	94 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	96 %	70 - 130 %
Toluene-d_8	10	9	94 %	70 - 130 %
4-Bromofluorobenzene	10	10	100 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZA-145	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112505-05RA1	QC Batch ID:	VM5-3662-W
Sampled:	11-06-07 12:45	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 22:23	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	BRL		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	3		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	48		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	120		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZA-14S	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112505-05RA1	QC Batch ID:	VM5-3662-W
Sampled:	11-06-07 12:45	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 22:23	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	sec-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	90 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.4	94 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	10	101 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WMW-8S**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112505-06**	QC Batch ID:	**VM7-2702-W**
Sampled:	**11-06-07 13:38**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-20-07 16:24**	Dilution Factor:	**2000**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1,000
74-87-3	Chloromethane	BRL		ug/L	1,000
75-01-4	Vinyl Chloride	1,400		ug/L	1,000
74-83-9	Bromomethane	BRL		ug/L	1,000
75-00-3	Chloroethane	BRL		ug/L	1,000
75-69-4	Trichlorofluoromethane	BRL		ug/L	1,000
60-29-7	Diethyl Ether	BRL		ug/L	4,000
75-35-4	1,1-Dichloroethene	2,200		ug/L	1,000
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	10,000
67-64-1	Acetone	BRL		ug/L	20,000
75-15-0	Carbon Disulfide	BRL		ug/L	10,000
75-09-2	Methylene Chloride	BRL		ug/L	5,000
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	1,000
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	1,000
75-34-3	1,1-Dichloroethane	BRL		ug/L	1,000
594-20-7	2,2-Dichloropropane	BRL		ug/L	1,000
156-59-2	*cis*- 1,2-Dichloroethene	57,000		ug/L	1,000
78-93-3	2-Butanone (MEK)	BRL		ug/L	10,000
74-97-5	Bromochloromethane	BRL		ug/L	1,000
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10,000
67-66-3	Chloroform	BRL		ug/L	1,000
71-55-6	1,1,1-Trichloroethane	22,000		ug/L	1,000
56-23-5	Carbon Tetrachloride	BRL		ug/L	1,000
563-58-6	1,1-Dichloropropene	BRL		ug/L	1,000
71-43-2	Benzene	BRL		ug/L	1,000
107-06-2	1,2-Dichloroethane	BRL		ug/L	1,000
79-01-6	Trichloroethene	1,100		ug/L	1,000
78-87-5	1,2-Dichloropropane	BRL		ug/L	1,000
74-95-3	Dibromomethane	BRL		ug/L	1,000
75-27-4	Bromodichloromethane	BRL		ug/L	1,000
123-91-1	1,4-Dioxane	BRL		ug/L	1,000,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	1,000
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10,000
108-88-3	Toluene	BRL		ug/L	1,000
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	1,000
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1,000
127-18-4	Tetrachloroethene	5,800		ug/L	1,000
142-28-9	1,3-Dichloropropane	BRL		ug/L	1,000
591-78-6	2-Hexanone	BRL		ug/L	10,000
124-48-1	Dibromochloromethane	BRL		ug/L	1,000
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1,000
108-90-7	Chlorobenzene	BRL		ug/L	1,000
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1,000
100-41-4	Ethylbenzene	BRL		ug/L	1,000
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	1,000
95-47-6	*ortho*- Xylene	BRL		ug/L	1,000

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-8S	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-06	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 13:38	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 16:24	Dilution Factor:	2000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1,000
75-25-2	Bromoform	BRL		ug/L	1,000
98-82-8	Isopropylbenzene	BRL		ug/L	1,000
108-86-1	Bromobenzene	BRL		ug/L	1,000
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1,000
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1,000
103-65-1	*n*-Propylbenzene	BRL		ug/L	1,000
95-49-8	2-Chlorotoluene	BRL		ug/L	1,000
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1,000
106-43-4	4-Chlorotoluene	BRL		ug/L	1,000
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1,000
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1,000
135-98-8	sec-Butylbenzene	BRL		ug/L	1,000
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1,000
99-87-6	4-Isopropyltoluene	BRL		ug/L	1,000
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1,000
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1,000
104-51-8	*n*-Butylbenzene	BRL		ug/L	1,000
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1,000
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1,000
87-68-3	Hexachlorobutadiene	BRL		ug/L	1,000
91-20-3	Naphthalene	BRL		ug/L	1,000
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1,000
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1,000
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1,000
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	1,000

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	100 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	105 %	70 - 130 %
Toluene-d_8	10	9	95 %	70 - 130 %
4-Bromofluorobenzene	10	10	98 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**GZ-19DD**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112505-07**	QC Batch ID:	**VM7-2702-W**
Sampled:	**11-06-07 14:23**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-20-07 16:52**	Dilution Factor:	**1000**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2,000
75-35-4	1,1-Dichloroethene	**2,100**		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5,000
67-64-1	Acetone	BRL		ug/L	10,000
75-15-0	Carbon Disulfide	BRL		ug/L	5,000
75-09-2	Methylene Chloride	**22,000**		ug/L	2,500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	**1,200**		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	**30,000**		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5,000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5,000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	**7,700**		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	**4,800**		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5,000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	**32,000**		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5,000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-19DD	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112505-07	QC Batch ID:	VM7-2702-W
Sampled:	11-06-07 14:23	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 16:52	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	100 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9	94 %	70 - 130 %
Toluene-d_8	10	10	97 %	70 - 130 %
4-Bromofluorobenzene	10	10	97 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical/04-E-037**	Lab ID:	**112505**
Client:	**WEB Engineering**	Received:	**11-08-07 14:45**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Sample 112505-5. Reported results for selected analyte exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.
2. EPA 8260B Non-conformance: Samples 112505-5RA1. Laboratory control sample (LCS) analyte Acetone was below recommended recovery limits for QC batch VM5-3662-W.
3. EPA 8260B Note: Samples 112505-4 through -7. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

GROUNDWATER ANALYTICAL

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CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: General Chemical	Firm: WEB Engineering
Project Number: 04-E-037	Address: 104 Longwater Drive
Sampler Name: Bruce Obodsky	City / State / Zip: Norwell MA 02061
Project Manager: Jon Aisner	Telephone: 781-878-7766

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- [X] STANDARD (10 Business Days)
- [ ] PRIORITY (5 Business Days)
- [ ] RUSH (RAN- _____)
  (Rush requires Rush Authorization Number)
- [ ] Please Email to: _____
- [ ] Please FAX to: _____

BILLING

- [ ] Purchase Order No.: 04-E-037
- [ ] Third Party Billing: _____
- [ ] GWA Quote: 0710-1701

ANALYSIS REQUEST

OPTIONS: [X] TBT Surcharge

Volatiles: [X] 8260B

Semi-Volatiles: [ ] Hold 90 Days [ ] Hold 7 Days [ ] 5 Day Rush; [X] 8270C

Pesticides/PCBs (Quantitation Required): [X] 8081A Pesticides; [X] 8082 PCBs

Metals: [X] Specify for Water Samples: [X] Total [ ] Dissolved; [X] 11 Priority Pollutant Metals

Extractable Petroleum Hydrocarbons: [X] EPH with Target Analytes; [X] Volatile Petroleum Hydrocarbons (VPH) per MADEP VPH 04-1.1

Hazardous Waste: [X] TCLP Pesticides; [X] TCLP Metals; [X] TCLP VOCs; [X] TCLP SVOCs; [X] Reactivity; [X] Ignitability; [X] Corrosivity

General Chemistry: [X] Alkalinity; [X] Chloride; [X] Sulfate; [X] Nitrate; [X] Nitrite; [X] Ammonia; [X] TKN; [X] Total Phosphorus; [X] Cyanide; [X] TOC; [X] Hardness; [X] Total Suspended Solids

Other: [X] Dissolved Oxygen; [X] Ferrous Iron; [X] Total Coliform; [X] E. coli; [X] MADEP Methods in Soil; [X] MADEP Methods in Water

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
11-6-07	9:50am	GZA-15S	GROUNDWATER	GRAB	2 X	HCl	YES	
	10:42	GZA-15D	GROUNDWATER	GRAB	3 X	HCl	YES	
	11:11am	GZA-15R	GROUNDWATER	GRAB	3 X	HCl	YES	
	12:10	GZA-14M	GROUNDWATER	GRAB	3 X	HCl	YES	
	12:46	GZA-14S	GROUNDWATER	GRAB	3 X	HCl	YES	
	1:38	Wmw-8S	GROUNDWATER	GRAB	3 X	HCl	YES	
	2:23	GZ-19OD	GROUNDWATER	GRAB	3 X	HCl	YES	

REMARKS / SPECIAL INSTRUCTIONS

- [ ] YES [ ] NO MCP Data Certification required
- [ ] YES [ ] NO MCP Drinking Water Sample included.
  (Volatile analyses require duplicate collection and Trip Blanks).
- [ ] Analyze Duplicates and Trips Blanks only if positive results.
- [ ] YES [ ] NO CT RCP Data Certification required.

Signature: _____

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DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
[ ] CT	[X] MCP GW-1/S-1	[ ] PWS Form
[ ] ME	[ ] MCP GW-2/S-2	[ ] MWRA
[X] MA	[ ] NY STARS	[ ] _____
[ ] NH	[ ] Drinking Water	
[ ] NY	[ ] Wastewater	
[ ] RI	[ ] Waste Disposal	
[ ] VT	[ ] Dredge Material	
[ ] _____	[ ] _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
- [ ] Sample Duplicate
- [ ] Matrix Spike
- [ ] Matrix Spike Duplicate

Selection of QC Sample
- [ ] Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time			
Relinquished by Sampler: Bruce Obodsky	11-6-07	4pm	Received by: [illegible]		Receipt Temperature: 5.3 °C Preserved / 2-4°C Recommended
Relinquished by: [illegible]	11/8/07	1445	Received by: Brad Alexander		Container Count: 21
Relinquished by:	Date	Time	Received by Laboratory:		Shipping/Airbill Number:

Method of Shipment: [X] GWA Courier [ ] Express Mail [ ] Federal Express [ ] UPS [ ] Hand [ ] _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3662-WL	Analyzed:	11-20-07 11:11	Analyzed:	11-20-07 11:51
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.7	87 %	10	8.5	85 %	2 %	70 - 130 %	25%
74-87-3	Chloromethane	10	10	100 %	10	10	103 %	3 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	9	90 %	10	8.9	89 %	1 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.5	95 %	10	9.5	95 %	0 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.7	97 %	10	9.9	99 %	2 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	9.2	92 %	10	9.3	93 %	1 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	19	95 %	20	19	96 %	0 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	9.7	97 %	10	9.7	97 %	1 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	15	76 %	20	16	78 %	2 %	70 - 130 %	25%
67-64-1	Acetone	20	11	57 % q	20	12	59 % q	3 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	17	86 %	20	17	87 %	2 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	10	104 %	10	10	104 %	0 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.5	95 %	10	10	101 %	6 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	11	108 %	10	11	108 %	0 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	10	100 %	10	10	102 %	2 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	11	106 %	10	10	104 %	1 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	102 %	10	11	106 %	4 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	17	84 %	20	17	84 %	1 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	107 %	10	11	110 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	24	118 %	20	23	117 %	1 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.5	95 %	10	9.7	97 %	1 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.1	91 %	10	9.4	94 %	4 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
71-43-2	Benzene	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.5	95 %	10	9.7	97 %	2 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	104 %	10	11	105 %	1 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	110 %	10	11	111 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	107 %	10	11	110 %	3 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	170	86 %	200	180	91 %	5 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	11	107 %	10	11	107 %	0 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	22	108 %	20	21	103 %	4 %	70 - 130 %	25%
108-88-3	Toluene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	101 %	10	10	105 %	4 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.1	91 %	10	9.6	96 %	5 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	107 %	10	11	108 %	2 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	17	83 %	20	17	83 %	0 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	108 %	10	11	110 %	2 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	10	105 %	10	11	108 %	3 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	100 %	10	10	103 %	3 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	104 %	10	11	106 %	2 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.9	99 %	10	10	103 %	4 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	99 %	20	21	104 %	4 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	100 %	10	10	104 %	3 %	70 - 130 %	25%
100-42-5	Styrene	10	10	103 %	10	11	107 %	4 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	114 %	10	12	116 %	2 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	10	103 %	10	11	106 %	3 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VMS-3662-WL	Analyzed:	11-20-07 11:11	Analyzed:	11-20-07 11:51
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	11	108 %	10	10	104 %	3 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	12	120 %	10	12	120 %	0 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	9.9	99 %	10	10	102 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.9	99 %	10	10	101 %	2 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
98-06-6	tert-Butylbenzene	10	9.7	97 %	10	9.8	98 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	107 %	10	11	108 %	1 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	10	9.6	96 %	10	9.8	98 %	2 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	10	102 %	10	10	103 %	0 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	10	100 %	10	10	102 %	1 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	10	103 %	10	10	105 %	1 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	10	104 %	10	10	103 %	1 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	12	115 %	10	10	105 %	10 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	108 %	10	11	109 %	0 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.3	93 %	10	9.4	94 %	1 %	70 - 130 %	25%
91-20-3	Naphthalene	10	11	115 %	10	11	111 %	4 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	111 %	10	11	108 %	2 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	200	100 %	200	210	106 %	5 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.8	98 %	10	10	100 %	1 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.9	99 %	10	9.8	98 %	1 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	12	115 %	10	11	112 %	3 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	8.6	86 %	10	8.2	82 %		70 - 130 %
1,2-Dichloroethane-d_4	10	8.7	87 %	10	8.3	83 %		70 - 130 %
Toluene-d_8	10	9	90 %	10	8.9	89 %		70 - 130 %
4-Bromofluorobenzene	10	11	107 %	10	11	106 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: **EPA Method 8260B**
QC Batch ID: **VMS-3662-WB**
Matrix: **Aqueous**

Instrument ID: **MS-5 HP 6890**
Analyzed: **11-20-07 14:06**
Analyst: **DGM**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3662-WB	Analyzed:	11-20-07 14:06
Matrix:	Aqueous	Analyst:	DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.5	**85** %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.2	**82** %	70 - 130 %
Toluene-d_8	10	8.9	**89** %	70 - 130 %
4-Bromofluorobenzene	10	11	**107** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2702-W	Analyzed:	11-20-07 06:47	Analyzed:	11-20-07 07:15
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.0	80 %	10	8.4	84 %	5 %	70 - 130 %	25%
74-87-3	Chloromethane	10	8.6	86 %	10	8.8	88 %	1 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	8.7	87 %	10	9.5	95 %	8 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.1	91 %	10	9.6	96 %	6 %	70 - 130 %	25%
75-00-3	Chloroethane	10	8.9	89 %	10	9.1	91 %	2 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	9.0	90 %	10	8.7	87 %	3 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	83 %	20	18	88 %	5 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	8.9	89 %	10	8.7	87 %	2 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	18	89 %	20	18	91 %	1 %	70 - 130 %	25%
67-64-1	Acetone	20	17	86 %	20	17	83 %	3 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	18	89 %	20	18	89 %	1 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	8.7	87 %	10	8.1	81 %	7 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	8.8	88 %	10	8.7	87 %	1 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	9.3	93 %	10	9.6	96 %	4 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.6	96 %	10	9.2	92 %	4 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.4	94 %	10	9.0	90 %	4 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	9.5	95 %	10	9.3	93 %	2 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	19	94 %	20	19	93 %	2 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	9.5	95 %	10	9.7	97 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	21	105 %	20	21	106 %	2 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.9	99 %	10	9.7	97 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.4	94 %	10	9.4	94 %	0 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.3	93 %	10	9.0	90 %	3 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.5	95 %	10	9.4	94 %	0 %	70 - 130 %	25%
71-43-2	Benzene	10	10	101 %	10	9.6	96 %	5 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.9	99 %	10	10	100 %	2 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.4	94 %	10	9.1	91 %	3 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	102 %	10	9.6	96 %	7 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	10	104 %	10	10	103 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	107 %	10	9.8	98 %	9 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	220	112 %	200	220	108 %	3 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	10	102 %	10	10	100 %	1 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	23	115 %	20	24	118 %	3 %	70 - 130 %	25%
108-88-3	Toluene	10	10	101 %	10	9.7	97 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.9	99 %	10	9.6	96 %	2 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	110 %	10	10	105 %	5 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.4	94 %	10	9.5	95 %	1 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	112 %	10	11	107 %	5 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	24	119 %	20	24	121 %	2 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	106 %	10	10	101 %	5 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	113 %	10	11	106 %	6 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.8	98 %	10	9.9	99 %	0 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	105 %	10	10	101 %	4 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	10	103 %	10	10	102 %	1 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	102 %	20	20	98 %	4 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	104 %	10	10	102 %	2 %	70 - 130 %	25%
100-42-5	Styrene	10	11	111 %	10	11	109 %	2 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	115 %	10	10	101 %	13 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	9.5	95 %	10	9.4	94 %	1 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2702-W	Analyzed:	11-20-07 06:47	Analyzed:	11-20-07 07:15
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.9	99 %	10	10	101 %	2 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	10	105 %	10	10	101 %	4 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	11	114 %	10	11	110 %	3 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	9.8	98 %	10	9.7	97 %	1 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.6	96 %	10	9.3	93 %	3 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	9.9	99 %	10	9.9	99 %	0 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9.7	97 %	10	9.7	97 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	10	103 %	10	10	104 %	1 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	9.6	96 %	10	9.4	94 %	2 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.4	94 %	10	9.5	95 %	1 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.5	95 %	10	9.5	95 %	0 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.4	94 %	10	9.4	94 %	1 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	10	101 %	10	9.9	99 %	2 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	10	100 %	10	9.8	98 %	2 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	11	107 %	10	10	101 %	6 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.3	93 %	10	9.4	94 %	1 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	8.9	89 %	10	8.6	86 %	4 %	70 - 130 %	25%
91-20-3	Naphthalene	10	10	101 %	10	9.9	99 %	2 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	9.8	98 %	10	9.8	98 %	0 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	190	93 %	200	190	93 %	1 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.4	94 %	10	9.5	95 %	2 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	8.2	82 %	10	8.4	84 %	2 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	9.3	93 %	10	8.9	89 %	4 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	9	92 %	10	9	92 %		70 - 130 %
1,2-Dichloroethane-d_4	10	10	100 %	10	9	93 %		70 - 130 %
Toluene-d_8	10	10	101 %	10	10	100 %		70 - 130 %
4-Bromofluorobenzene	10	9	94 %	10	10	95 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM7-2702-W
Matrix: Aqueous

Instrument ID: MS-7 HP 6890
Analyzed: 11-20-07 07:51
Analyst: LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM7-2702-W
Matrix: Aqueous

Instrument ID: MS-7 HP 6890
Analyzed: 11-20-07 07:51
Analyst: LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	0.5
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	20
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	91 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	98 %	70 - 130 %
Toluene-d_8	10	9	94 %	70 - 130 %
4-Bromofluorobenzene	10	9	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

GROUNDWATER ANALYTICAL

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228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

November 28, 2007

Mr. Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-037**
Lab ID: **112507**
Received: **11-08-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/elm
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name:	General Chemical
Project Number:	04-E-037
Scheduled Due Date:	11-26-07
Laboratory Number:	112507

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 11-08-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
112507-1	SW-3	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-2	SW-DSC-1	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-3	SW-USA-1	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-4	PZ-1D	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-5	WMW-4	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-6	GZ-7R	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-7	GZ-7	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-8	WMW-5	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112507-9	GZ-2	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates

Notes:

1. Project 112507 was received at a temperature of 5.3 C.

Results will be mailed to:

Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please send email to clientservices@groundwateranalytical.com or call 508-759-4441 and ask to speak to a Project Manager.

Your project is scheduled for completion on 11-26-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact a Project Manager to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical/04-E-037**
Client: **WEB Engineering**
Lab ID: **112507**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **11-08-07**

Temperature: **5.3'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-1	SW-3		Aqueous	11/7/07 8:27	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949012	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949002	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949001	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-2	SW-DSC-1		Aqueous	11/7/07 8:38	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949031	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949011	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949000	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-3	SW-USA-1		Aqueous	11/7/07 8:50	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949021	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949020	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949010	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-4	PZ-1D		Aqueous	11/7/07 9:29	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949050	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-5	WMW-4		Aqueous	11/7/07 11:21	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949060	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949051	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949041	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-6	GZ-7R		Aqueous	11/7/07 12:34	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949090	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949080	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949070	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-7	GZ-7		Aqueous	11/7/07 13:16	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949081	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949071	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949061	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112507-8	WMW-5		Aqueous	11/7/07 14:20	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949091	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949042	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949032	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	General Chemical/04-E-037	Delivery:	GWA Courier	Temperature:	5.3'C
Client:	WEB Engineering	Airbill:	n/a	Chain of Custody:	Present
Lab ID:	112507	Lab Receipt:	11-08-07	Custody Seal(s):	n/a

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112507-9	GZ-2		Aqueous	11/7/07 16:08	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C949049	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07		
C949048	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07		
C949039	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07		

GROUNDWATER ANALYTICAL

Data Certification

Project: General Chemical/04-E-037
Client: WEB Engineering

Lab ID: 112507
Received: 11-08-07 14:45

MA DEP Compendium of Analytical Methods

Project Location: n/a
MA DEP RTN: n/a

This Form provides certifications for the following data set:

EPA 8260B: 112507-1,-2,-3,-4,-5,-6,-7,-8,-9

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020A ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods, check all that apply:	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S= SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	No
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Karyn E. Raymond
Position: Project Manager
Printed Name: Karyn E. Raymond
Date: 11-28-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	SW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-01	QC Batch ID:	VM5-3663-W
Sampled:	11-07-07 08:27	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 11:49	Dilution Factor:	5
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	BRL		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	13		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	5		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	6		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	SW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-01	QC Batch ID:	VM5-3663-W
Sampled:	11-07-07 08:27	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 11:49	Dilution Factor:	5
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.0	90 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.6	96 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	10	102 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	SW-DSC-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-02	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 08:38	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 01:04	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	BRL		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	5		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	BRL		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	BRL		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	SW-DSC-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-02	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 08:38	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 01:04	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.9	89 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	92 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	10	100 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	SW-USA-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-03	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 08:50	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 01:44	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	BRL		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	5		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	BRL		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	3		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	SW-USA-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-03	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 08:50	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 01:44	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.9	89 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	92 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	10	100 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	PZ-1D	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-04	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 09:29	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 02:25	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	BRL		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	BRL		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	BRL		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	PZ-1D	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-04	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 09:29	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 02:25	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	n-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	tert-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	sec-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	n-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	tert-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl tert-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	tert-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.9	89 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.4	94 %	70 - 130 %
Toluene-d_8	10	8.9	89 %	70 - 130 %
4-Bromofluorobenzene	10	10	100 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-4	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-05	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 11:21	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 03:05	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	1,200		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	BRL		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	29,000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	15,000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	3,200		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	7,900		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-4	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-05	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 11:21	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 03:05	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.0	90 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.9	89 %	70 - 130 %
Toluene-d_8	10	9.0	90 %	70 - 130 %
4-Bromofluorobenzene	10	9.8	98 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-7R	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-06	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 12:34	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 03:45	Dilution Factor:	10
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	5
74-87-3	Chloromethane	BRL		ug/L	5
75-01-4	Vinyl Chloride	BRL		ug/L	5
74-83-9	Bromomethane	BRL		ug/L	5
75-00-3	Chloroethane	BRL		ug/L	5
75-69-4	Trichlorofluoromethane	BRL		ug/L	5
60-29-7	Diethyl Ether	BRL		ug/L	20
75-35-4	1,1-Dichloroethene	18		ug/L	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	50
67-64-1	Acetone	BRL		ug/L	100
75-15-0	Carbon Disulfide	BRL		ug/L	50
75-09-2	Methylene Chloride	BRL		ug/L	25
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	5
75-34-3	1,1-Dichloroethane	BRL		ug/L	5
594-20-7	2,2-Dichloropropane	BRL		ug/L	5
156-59-2	*cis*-1,2-Dichloroethene	140		ug/L	5
78-93-3	2-Butanone (MEK)	BRL		ug/L	50
74-97-5	Bromochloromethane	BRL		ug/L	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	50
67-66-3	Chloroform	BRL		ug/L	5
71-55-6	1,1,1-Trichloroethane	170		ug/L	5
56-23-5	Carbon Tetrachloride	BRL		ug/L	5
563-58-6	1,1-Dichloropropene	BRL		ug/L	5
71-43-2	Benzene	BRL		ug/L	5
107-06-2	1,2-Dichloroethane	BRL		ug/L	5
79-01-6	Trichloroethene	92		ug/L	5
78-87-5	1,2-Dichloropropane	BRL		ug/L	5
74-95-3	Dibromomethane	BRL		ug/L	5
75-27-4	Bromodichloromethane	BRL		ug/L	5
123-91-1	1,4-Dioxane	BRL		ug/L	5000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	50
108-88-3	Toluene	BRL		ug/L	5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	5
127-18-4	Tetrachloroethene	410		ug/L	5
142-28-9	1,3-Dichloropropane	BRL		ug/L	5
591-78-6	2-Hexanone	BRL		ug/L	50
124-48-1	Dibromochloromethane	BRL		ug/L	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	5
108-90-7	Chlorobenzene	BRL		ug/L	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	5
100-41-4	Ethylbenzene	BRL		ug/L	5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	5
95-47-6	*ortho*-Xylene	BRL		ug/L	5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-7R	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-06	QC Batch ID:	VMS-3662-W
Sampled:	11-07-07 12:34	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 03:45	Dilution Factor:	10
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	5
75-25-2	Bromoform	BRL		ug/L	5
98-82-8	Isopropylbenzene	BRL		ug/L	5
108-86-1	Bromobenzene	BRL		ug/L	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	5
103-65-1	*n*-Propylbenzene	BRL		ug/L	5
95-49-8	2-Chlorotoluene	BRL		ug/L	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	5
106-43-4	4-Chlorotoluene	BRL		ug/L	5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	5
99-87-6	4-Isopropyltoluene	BRL		ug/L	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	5
104-51-8	*n*-Butylbenzene	BRL		ug/L	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	5
87-68-3	Hexachlorobutadiene	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.0	90 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.1	91 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	9.9	99 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-7	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-07	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 13:16	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 04:25	Dilution Factor:	50
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	25
74-87-3	Chloromethane	BRL		ug/L	25
75-01-4	Vinyl Chloride	BRL		ug/L	25
74-83-9	Bromomethane	BRL		ug/L	25
75-00-3	Chloroethane	BRL		ug/L	25
75-69-4	Trichlorofluoromethane	BRL		ug/L	25
60-29-7	Diethyl Ether	BRL		ug/L	100
75-35-4	1,1-Dichloroethene	BRL		ug/L	25
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	250
67-64-1	Acetone	BRL		ug/L	500
75-15-0	Carbon Disulfide	BRL		ug/L	250
75-09-2	Methylene Chloride	BRL		ug/L	130
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	25
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	25
75-34-3	1,1-Dichloroethane	BRL		ug/L	25
594-20-7	2,2-Dichloropropane	BRL		ug/L	25
156-59-2	*cis*-1,2-Dichloroethene	**1,100**		ug/L	25
78-93-3	2-Butanone (MEK)	BRL		ug/L	250
74-97-5	Bromochloromethane	BRL		ug/L	25
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	250
67-66-3	Chloroform	BRL		ug/L	25
71-55-6	1,1,1-Trichloroethane	**780**		ug/L	25
56-23-5	Carbon Tetrachloride	BRL		ug/L	25
563-58-6	1,1-Dichloropropene	BRL		ug/L	25
71-43-2	Benzene	BRL		ug/L	25
107-06-2	1,2-Dichloroethane	BRL		ug/L	25
79-01-6	Trichloroethene	**290**		ug/L	25
78-87-5	1,2-Dichloropropane	BRL		ug/L	25
74-95-3	Dibromomethane	BRL		ug/L	25
75-27-4	Bromodichloromethane	BRL		ug/L	25
123-91-1	1,4-Dioxane	BRL		ug/L	25000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	25
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	250
108-88-3	Toluene	BRL		ug/L	25
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	25
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	25
127-18-4	Tetrachloroethene	**280**		ug/L	25
142-28-9	1,3-Dichloropropane	BRL		ug/L	25
591-78-6	2-Hexanone	BRL		ug/L	250
124-48-1	Dibromochloromethane	BRL		ug/L	25
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	25
108-90-7	Chlorobenzene	BRL		ug/L	25
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	25
100-41-4	Ethylbenzene	BRL		ug/L	25
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	25
95-47-6	*ortho*-Xylene	BRL		ug/L	25

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-7	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-07	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 13:16	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 04:25	Dilution Factor:	50
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	25
75-25-2	Bromoform	BRL		ug/L	25
98-82-8	Isopropylbenzene	BRL		ug/L	25
108-86-1	Bromobenzene	BRL		ug/L	25
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	25
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	25
103-65-1	*n*-Propylbenzene	BRL		ug/L	25
95-49-8	2-Chlorotoluene	BRL		ug/L	25
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	25
106-43-4	4-Chlorotoluene	BRL		ug/L	25
98-06-6	*tert*-Butylbenzene	BRL		ug/L	25
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	25
135-98-8	*sec*-Butylbenzene	BRL		ug/L	25
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	25
99-87-6	4-Isopropyltoluene	BRL		ug/L	25
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	25
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	25
104-51-8	*n*-Butylbenzene	BRL		ug/L	25
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	25
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	25
87-68-3	Hexachlorobutadiene	BRL		ug/L	25
91-20-3	Naphthalene	BRL		ug/L	25
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	25
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	1000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	25
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	25
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	25

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.9	89 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	92 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	9.8	98 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	WMW-5	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-08	QC Batch ID:	VMS-3662-W
Sampled:	11-07-07 14:20	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 05:05	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	730		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	470		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	24,000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	7,700		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	1,900		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	1,900		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	WMW-5	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-08	QC Batch ID:	VMS-3662-W
Sampled:	11-07-07 14:20	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 05:05	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.0	90 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.4	94 %	70 - 130 %
Toluene-d_8	10	9.0	90 %	70 - 130 %
4-Bromofluorobenzene	10	10	100 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GZ-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-09	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 16:08	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 05:46	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	2.5
74-87-3	Chloromethane	BRL		ug/L	2.5
75-01-4	Vinyl Chloride	BRL		ug/L	2.5
74-83-9	Bromomethane	BRL		ug/L	2.5
75-00-3	Chloroethane	BRL		ug/L	2.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	2.5
60-29-7	Diethyl Ether	BRL		ug/L	10
75-35-4	1,1-Dichloroethene	4		ug/L	2.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	25
67-64-1	Acetone	BRL		ug/L	50
75-15-0	Carbon Disulfide	BRL		ug/L	25
75-09-2	Methylene Chloride	BRL		ug/L	13
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	2.5
1634-04-4	Methyl tert-butyl Ether (MTBE)	BRL		ug/L	2.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	2.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	2.5
156-59-2	*cis*-1,2-Dichloroethene	43		ug/L	2.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	25
74-97-5	Bromochloromethane	BRL		ug/L	2.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	25
67-66-3	Chloroform	BRL		ug/L	2.5
71-55-6	1,1,1-Trichloroethane	38		ug/L	2.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	2.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	2.5
71-43-2	Benzene	BRL		ug/L	2.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	2.5
79-01-6	Trichloroethene	20		ug/L	2.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	2.5
74-95-3	Dibromomethane	BRL		ug/L	2.5
75-27-4	Bromodichloromethane	BRL		ug/L	2.5
123-91-1	1,4-Dioxane	BRL		ug/L	2500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	2.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	25
108-88-3	Toluene	BRL		ug/L	2.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	2.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	2.5
127-18-4	Tetrachloroethene	52		ug/L	2.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	2.5
591-78-6	2-Hexanone	BRL		ug/L	25
124-48-1	Dibromochloromethane	BRL		ug/L	2.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	2.5
108-90-7	Chlorobenzene	BRL		ug/L	2.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	2.5
100-41-4	Ethylbenzene	BRL		ug/L	2.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	2.5
95-47-6	*ortho*-Xylene	BRL		ug/L	2.5

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GZ-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112507-09	QC Batch ID:	VM5-3662-W
Sampled:	11-07-07 16:08	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 05:46	Dilution Factor:	5
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	2.5
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	2.5
108-86-1	Bromobenzene	BRL		ug/L	2.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	2.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	2.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	2.5
95-49-8	2-Chlorotoluene	BRL		ug/L	2.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	2.5
106-43-4	4-Chlorotoluene	BRL		ug/L	2.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	2.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	2.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	2.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	2.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	2.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	2.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	2.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	2.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	2.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	2.5
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	2.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	100
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	2.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	2.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	2.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.1	91 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.5	95 %	70 - 130 %
Toluene-d_8	10	9.0	90 %	70 - 130 %
4-Bromofluorobenzene	10	9.6	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	General Chemical/04-E-037	Lab ID:	112507
Client:	WEB Engineering	Received:	11-08-07 14:45

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Samples 112507-02 through -09. Laboratory control sample (LCS) analyte Acetone was below recommended recovery limits for QC batch VM5-3662-W.
2. EPA 8260B Note: Sample 112507-01, -02, -03, -04 and -09. Samples were diluted prior to analysis. Dilution was required due to observed foaming characteristics of sample. Sample foaming interferes with purge and trap sample concentration.
3. EPA 8260B Note: Samples 112507-01, -06, -07 and -08. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3662-WL	Analyzed:	11-20-07 11:11	Analyzed:	11-20-07 11:51
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.7	87 %	10	8.5	85 %	2 %	70 - 130 %	25%
74-87-3	Chloromethane	10	10	100 %	10	10	103 %	3 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	9	90 %	10	8.9	89 %	1 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.5	95 %	10	9.5	95 %	0 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.7	97 %	10	9.9	99 %	2 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	9.2	92 %	10	9.3	93 %	1 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	19	95 %	20	19	96 %	0 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	9.7	97 %	10	9.7	97 %	1 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	15	76 %	20	16	78 %	2 %	70 - 130 %	25%
67-64-1	Acetone	20	11	57 % q	20	12	59 % q	3 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	17	86 %	20	17	87 %	2 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	10	104 %	10	10	104 %	0 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.5	95 %	10	10	101 %	6 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	11	108 %	10	11	108 %	0 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	10	100 %	10	10	102 %	2 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	11	106 %	10	10	104 %	1 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	102 %	10	11	106 %	4 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	17	84 %	20	17	84 %	1 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	107 %	10	11	110 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	24	118 %	20	23	117 %	1 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.5	95 %	10	9.7	97 %	1 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.1	91 %	10	9.4	94 %	4 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
71-43-2	Benzene	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.5	95 %	10	9.7	97 %	2 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	104 %	10	11	105 %	1 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	110 %	10	11	111 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	107 %	10	11	110 %	3 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	170	86 %	200	180	91 %	5 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	11	107 %	10	11	107 %	0 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	22	108 %	20	21	103 %	4 %	70 - 130 %	25%
108-88-3	Toluene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	101 %	10	10	105 %	4 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.1	91 %	10	9.6	96 %	5 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	107 %	10	11	108 %	2 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	17	83 %	20	17	83 %	0 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	108 %	10	11	110 %	2 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	10	105 %	10	11	108 %	3 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	100 %	10	10	103 %	3 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	104 %	10	11	106 %	2 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.9	99 %	10	10	103 %	4 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	99 %	20	21	104 %	4 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	100 %	10	10	104 %	3 %	70 - 130 %	25%
100-42-5	Styrene	10	10	103 %	10	11	107 %	4 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	114 %	10	12	116 %	2 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	10	103 %	10	11	106 %	3 %	70 - 130 %	25%

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3662-WL	Analyzed:	11-20-07 11:11	Analyzed:	11-20-07 11:51
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	11	108 %	10	10	104 %	3 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	12	120 %	10	12	120 %	0 %	70 - 130 %	25%
103-65-1	n-Propylbenzene	10	9.9	99 %	10	10	102 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.9	99 %	10	10	101 %	2 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
98-06-6	tert-Butylbenzene	10	9.7	97 %	10	9.8	98 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	107 %	10	11	108 %	1 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	10	9.6	96 %	10	9.8	98 %	2 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	10	102 %	10	10	103 %	0 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	10	100 %	10	10	102 %	1 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	10	103 %	10	10	105 %	1 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	10	104 %	10	10	103 %	1 %	70 - 130 %	25%
104-51-8	n-Butylbenzene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	12	115 %	10	10	105 %	10 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	108 %	10	11	109 %	0 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.3	93 %	10	9.4	94 %	1 %	70 - 130 %	25%
91-20-3	Naphthalene	10	11	115 %	10	11	111 %	4 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	111 %	10	11	108 %	2 %	70 - 130 %	25%
75-65-0	tert-Butyl Alcohol (TBA)	200	200	100 %	200	210	106 %	5 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.8	98 %	10	10	100 %	1 %	70 - 130 %	25%
637-92-3	Ethyl tert-butyl Ether (ETBE)	10	9.9	99 %	10	9.8	98 %	1 %	70 - 130 %	25%
994-05-8	tert-Amyl Methyl Ether (TAME)	10	12	115 %	10	11	112 %	3 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	8.6	86 %	10	8.2	82 %		70 - 130 %
1,2-Dichloroethane-d_4	10	8.7	87 %	10	8.3	83 %		70 - 130 %
Toluene-d_8	10	9	90 %	10	8.9	89 %		70 - 130 %
4-Bromofluorobenzene	10	11	107 %	10	11	106 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VMS-3662-WB	Analyzed:	11-20-07 14:06
Matrix:	Aqueous	Analyst:	DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3662-WB	Analyzed:	11-20-07 14:06
Matrix:	Aqueous	Analyst:	DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.5	85 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.2	82 %	70 - 130 %
Toluene-d_8	10	8.9	89 %	70 - 130 %
4-Bromofluorobenzene	10	11	107 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3663-WL	Analyzed:	11-21-07 08:47	Analyzed:	11-21-07 09:28
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	7.4	74 %	10	8.4	84 %	13 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.3	93 %	10	10	104 %	11 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	8.2	82 %	10	9.1	91 %	10 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.3	93 %	10	10	100 %	7 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.3	93 %	10	10	101 %	8 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	8.8	88 %	10	9.3	93 %	6 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	18	89 %	20	18	91 %	2 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	9.1	91 %	10	9.7	97 %	6 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	14	71 %	20	14	71 %	1 %	70 - 130 %	25%
67-64-1	Acetone	20	10	52 % q	20	11	54 % q	4 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	16	82 %	20	17	85 %	3 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	11	106 %	10	10	104 %	2 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.4	94 %	10	9.5	95 %	2 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	10	103 %	10	10	104 %	1 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.8	98 %	10	10	100 %	2 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	10	101 %	10	10	102 %	0 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	102 %	10	10	103 %	1 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	17	84 %	20	16	81 %	4 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	107 %	10	11	105 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	22	112 %	20	22	112 %	0 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	100 %	10	10	101 %	1 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.3	93 %	10	9.5	95 %	3 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	8.8	88 %	10	9.1	91 %	3 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9	90 %	10	9.4	94 %	3 %	70 - 130 %	25%
71-43-2	Benzene	10	9.8	98 %	10	10	102 %	3 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	10	104 %	10	10	105 %	1 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.4	94 %	10	9.6	96 %	2 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	101 %	10	10	104 %	3 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	109 %	10	11	107 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	107 %	10	11	109 %	2 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	170	85 %	200	170	87 %	2 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	10	105 %	10	10	105 %	0 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	21	103 %	20	20	102 %	1 %	70 - 130 %	25%
108-88-3	Toluene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	111 %	10	11	110 %	1 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.4	94 %	10	9.6	96 %	2 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	109 %	10	11	113 %	4 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	17	84 %	20	17	85 %	1 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	111 %	10	11	113 %	1 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	109 %	10	11	112 %	3 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	103 %	10	11	106 %	2 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	105 %	10	11	108 %	3 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	10	102 %	10	11	106 %	4 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	102 %	20	21	106 %	3 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	102 %	10	11	107 %	4 %	70 - 130 %	25%
100-42-5	Styrene	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
75-25-2	Bromoform	10	12	116 %	10	12	119 %	3 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	11	107 %	10	11	111 %	4 %	70 - 130 %	25%

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3663-WL	Analyzed:	11-21-07 08:47	Analyzed:	11-21-07 09:28
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	11	108 %	10	11	112 %	3 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	11	110 %	10	11	109 %	1 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	13	126 %	10	13	126 %	0 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	10	102 %	10	11	107 %	4 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	10	102 %	10	11	107 %	5 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	11	106 %	10	11	109 %	3 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
98-06-6	tert-Butylbenzene	10	9.9	99 %	10	10	105 %	5 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	110 %	10	11	115 %	5 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	10	10	100 %	10	10	104 %	4 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	11	106 %	10	11	110 %	3 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	10	105 %	10	11	109 %	4 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	11	109 %	10	11	112 %	2 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	10	103 %	10	11	108 %	4 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	12	122 %	10	11	112 %	8 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	112 %	10	12	116 %	3 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.5	95 %	10	9.9	99 %	5 %	70 - 130 %	25%
91-20-3	Naphthalene	10	11	114 %	10	12	120 %	5 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	115 %	10	12	116 %	1 %	70 - 130 %	25%
75-65-0	tert-Butyl Alcohol (TBA)	200	210	104 %	200	200	98 %	5 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.2	92 %	10	9.2	92 %	0 %	70 - 130 %	25%
637-92-3	Ethyl tert-butyl Ether (ETBE)	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
994-05-8	tert-Amyl Methyl Ether (TAME)	10	11	108 %	10	11	110 %	2 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	9	90 %	10	8.9	89 %		70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	92 %	10	9.1	91 %		70 - 130 %
Toluene-d_8	10	9	90 %	10	9	90 %		70 - 130 %
4-Bromofluorobenzene	10	9.8	98 %	10	9.8	98 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM5-3663-WB
Matrix: Aqueous

Instrument ID: MS-5 HP 6890
Analyzed: 11-21-07 10:53
Analyst: DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VM5-3663-WB	Analyzed:	11-21-07 10:53
Matrix:	Aqueous	Analyst:	DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.1	**91** %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.3	**93** %	70 - 130 %
Toluene-d_8	10	9.3	**93** %	70 - 130 %
4-Bromofluorobenzene	10	10	**101** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental_Lab/out_state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt_list_aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph_lab/documents/certified_labs.pdf

APPENDIX B

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

March 13, 2007

Mr. Jon Aisner
WEB Engineering
106 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical Corporation/04-E-037**
Lab ID: **104389**
Received: **02-26-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/ajh
Enclosures

APP B
ATR - TS

PROJECT RECEIPT CONFIRMATION

Project Name:	General Chemical Corporation
Project Number:	04-E-037
Scheduled Due Date:	03-12-07
Laboratory Number:	104389

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 02-26-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
104389-1	RW-1	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104389-2	RW-2	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104389-3	RW-3	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104389-4	RW-4	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104389-5	BIO-2W	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104389-6	BIO-3W	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104389-7	BIO-1W	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates

Notes:

1. Project 104389 was received at a temperature of 2 C.

Results will be mailed to:

Jon Aisner
WEB Engineering
106 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please reply to this e-mail or call 508-759-4441 and ask to speak with Karyn Raymond, Project Manager.

Your project is scheduled for completion on 03-12-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact Karyn to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical Corporation/04-E-037**
Client: **WEB Engineering**
Lab ID: **104389**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **02-26-07**

Temperature: **2'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104389-1	RW-1		Aqueous	2/23/07 14:18	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C896818	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C896806	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C876792	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104389-2	RW-2		Aqueous	2/23/07 14:23	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C896847	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C896846	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C896830	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104389-3	RW-3		Aqueous	2/23/07 14:31	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876816	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876810	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876798	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104389-4	RW-4		Aqueous	2/23/07 14:38	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C896834	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C896831	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C896796	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104389-5	BIO-2W		Aqueous	2/23/07 14:44	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C896832	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C896820	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C896808	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104389-6	BIO-3W		Aqueous	2/23/07 14:49	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C674701	40 mL VOA Vial	Proline	BX17895	HCL	R-4297E	08-26-05	08-30-05	
C674700	40 mL VOA Vial	Proline	BX17895	HCL	R-4297E	08-26-05	08-30-05	
C896833	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104389-7	BIO-1W		Aqueous	2/23/07 14:56	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C674688	40 mL VOA Vial	Proline	BX17895	HCL	R-4297E	08-26-05	08-30-05	
C679561	40 mL VOA Vial	Proline	BX18789	HCL	R-4601F	10-12-05	n/a	
C679560	40 mL VOA Vial	Proline	BX18789	HCL	R-4601F	10-12-05	n/a	

GROUNDWATER ANALYTICAL

Data Certification

Project:	General Chemical Corporation/04-E-037	Lab ID:	104389
Client:	WEB Engineering	Received:	02-26-07 17:30

MA DEP Compendium of Analytical Methods

Project Location: n/a — MA DEP RTN: n/a

This Form provides certifications for the following data set:

EPA 8260B: 104389-1,-2,-3,-4,-5,-6,-7

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
Methods Used	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S - SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	No
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [signature] Position: Operations Manager

Printed Name: Eric H. Jensen Date: 03-13-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**RW-1**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-01**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:18**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 02:25**	Dilution Factor:	**500**
Analyst:	**CCT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	790		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	BRL		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	12,000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	10,000		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	5,100		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	4,200		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**RW-1**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-01**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:18**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 02:25**	Dilution Factor:	**500**
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**111 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	10	**100 %**	70 - 130 %
Toluene-d_8	10	11	**105 %**	70 - 130 %
4-Bromofluorobenzene	10	9.1	**91 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-2	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104389-02	QC Batch ID:	VM4-3809-W
Sampled:	02-23-07 14:23	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-09-07 02:54	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1,100		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	1,900		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	300		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	20,000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	11,000		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	4,800		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	4,100		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**RW-2**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-02**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:23**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 02:54**	Dilution Factor:	**500**
Analyst:	**CCT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**113 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	**97 %**	70 - 130 %
Toluene-d_8	10	10	**103 %**	70 - 130 %
4-Bromofluorobenzene	10	9.2	**92 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-3	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104389-03	QC Batch ID:	VM4-3809-W
Sampled:	02-23-07 14:31	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-09-07 03:23	Dilution Factor:	2000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1000
74-87-3	Chloromethane	BRL		ug/L	1000
75-01-4	Vinyl Chloride	BRL		ug/L	1000
74-83-9	Bromomethane	BRL		ug/L	1000
75-00-3	Chloroethane	BRL		ug/L	1000
75-69-4	Trichlorofluoromethane	BRL		ug/L	1000
60-29-7	Diethyl Ether	BRL		ug/L	4000
75-35-4	1,1-Dichloroethene	5,400		ug/L	1000
76-13-1	1,1,2-Trichlorotrifluoroethane	16,000		ug/L	10000
67-64-1	Acetone	BRL		ug/L	20000
75-15-0	Carbon Disulfide	BRL		ug/L	10000
75-09-2	Methylene Chloride	9,900		ug/L	5000
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	1000
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	1000
75-34-3	1,1-Dichloroethane	BRL		ug/L	1000
594-20-7	2,2-Dichloropropane	BRL		ug/L	1000
156-59-2	*cis*-1,2-Dichloroethene	52,000		ug/L	1000
78-93-3	2-Butanone (MEK)	BRL		ug/L	10000
74-97-5	Bromochloromethane	BRL		ug/L	1000
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10000
67-66-3	Chloroform	BRL		ug/L	1000
71-55-6	1,1,1-Trichloroethane	70,000		ug/L	1000
56-23-5	Carbon Tetrachloride	BRL		ug/L	1000
563-58-6	1,1-Dichloropropene	BRL		ug/L	1000
71-43-2	Benzene	BRL		ug/L	1000
107-06-2	1,2-Dichloroethane	BRL		ug/L	1000
79-01-6	Trichloroethene	19,000		ug/L	1000
78-87-5	1,2-Dichloropropane	BRL		ug/L	1000
74-95-3	Dibromomethane	BRL		ug/L	1000
75-27-4	Bromodichloromethane	BRL		ug/L	1000
123-91-1	1,4-Dioxane	BRL		ug/L	1000000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	1000
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10000
108-88-3	Toluene	BRL		ug/L	1000
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	1000
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1000
127-18-4	Tetrachloroethene	30,000		ug/L	1000
142-28-9	1,3-Dichloropropane	BRL		ug/L	1000
591-78-6	2-Hexanone	BRL		ug/L	10000
124-48-1	Dibromochloromethane	BRL		ug/L	1000
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1000
108-90-7	Chlorobenzene	BRL		ug/L	1000
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1000
100-41-4	Ethylbenzene	BRL		ug/L	1000
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	1000
95-47-6	*ortho*-Xylene	BRL		ug/L	1000

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**RW-3**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-03**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:31**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 03:23**	Dilution Factor:	**2000**
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1000
75-25-2	Bromoform	BRL		ug/L	1000
98-82-8	Isopropylbenzene	BRL		ug/L	1000
108-86-1	Bromobenzene	BRL		ug/L	1000
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1000
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1000
103-65-1	*n*-Propylbenzene	BRL		ug/L	1000
95-49-8	2-Chlorotoluene	BRL		ug/L	1000
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1000
106-43-4	4-Chlorotoluene	BRL		ug/L	1000
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1000
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1000
135-98-8	*sec*-Butylbenzene	BRL		ug/L	1000
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1000
99-87-6	4-Isopropyltoluene	BRL		ug/L	1000
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1000
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1000
104-51-8	*n*-Butylbenzene	BRL		ug/L	1000
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1000
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1000
87-68-3	Hexachlorobutadiene	BRL		ug/L	1000
91-20-3	Naphthalene	BRL		ug/L	1000
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1000
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1000
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1000
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	1000

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**108 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	8.7	**87 %**	70 - 130 %
Toluene-d_8	10	11	**105 %**	70 - 130 %
4-Bromofluorobenzene	10	9.4	**94 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**RW-4**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-04**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:38**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 03:52**	Dilution Factor:	**500**
Analyst:	**CCT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	250		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	560		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	BRL		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	15,000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	5,400		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	17,000		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	11,000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**RW-4**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-04**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:38**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 03:52**	Dilution Factor:	**500**
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**113 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	**92 %**	70 - 130 %
Toluene-d_8	10	10	**104 %**	70 - 130 %
4-Bromofluorobenzene	10	9	**90 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**BIO-2W**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-05**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:44**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 04:21**	Dilution Factor:	**500**
Analyst:	**CCT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1,200		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	3,500		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	2,400		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	300		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	19,000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	17,000		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	8,300		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	9,000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-2W	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104389-05	QC Batch ID:	VM4-3809-W
Sampled:	02-23-07 14:44	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-09-07 04:21	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	113 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.8	98 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**BIO-3W**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-06**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:49**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 04:50**	Dilution Factor:	**500**
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1,000		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	2,100		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	BRL		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	18,000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	15,000		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	7,400		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	8,200		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**BIO-3W**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-06**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:49**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 04:50**	Dilution Factor:	**500**
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**114 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	10	**102 %**	70 - 130 %
Toluene-d_8	10	10	**104 %**	70 - 130 %
4-Bromofluorobenzene	10	9.1	**91 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**BIO-1W**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104389-07**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 14:56**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 05:19**	Dilution Factor:	**500**
Analyst:	**CCT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	**1,500**		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	**4,000**		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	**3,400**		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	**320**		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	**22,000**		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	**18,000**		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	**9,800**		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	**10,000**		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-1W	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104389-07	QC Batch ID:	VM4-3809-W
Sampled:	02-23-07 14:56	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-09-07 05:19	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	107 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.9	89 %	70 - 130 %
Toluene-d_8	10	10	103 %	70 - 130 %
4-Bromofluorobenzene	10	8.9	89 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical Corporation/04-E-037**	Lab ID:	**104389**
Client:	**WEB Engineering**	Received:	**02-26-07 17:30**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Samples 104389-01 through -07. Laboratory control sample (LCS) analyte 1,4-Dioxane was above recommended recovery limits for QC batch VM4-3809.
2. EPA 8260B Note: Samples 104389-01 through -07. Sample were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.
3. EPA 8260B Note: Samples 104389-02, -03, -05, -06, and -07. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

GROUNDWATER ANALYTICAL

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Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

№ 201800

Project Name: General Chemical Corp	Firm: WRS Engineering
Project Number: 04-E-037	Address: 104 Longwater Drive
Sampler Name: Bruce Oborsky	City / State / Zip: Norwell MA 02061
Project Manager: Jon Aisner	Telephone: 781-878-7766

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- [X] STANDARD (10 Business Days)
- [ ] PRIORITY (5 Business Days)
- [ ] RUSH (RAN- _____)
  (Rush requires Rush Authorization Number)
- [ ] Please Email to: _____
- [ ] Please FAX to: 781-878-8004

BILLING

- [ ] Purchase Order No.: 04-E-037
- [ ] Third Party Billing: _____
- [ ] GWA Quote: _____

ANALYSIS REQUEST

OPTIONS / SDWA / NPDES / REMARKS

Volatiles: [ ] TICs Reqd.
Semivolatiles: [ ] Acid Comp. (Full BNA only) [ ] TICs Reqd.
Petrol/Halo/PCBs Extractable Vol.
Metals: Specify for Water Samples [ ] Total [ ] Dissolved
Fractionated Hydrocarbons: Ext. TPH; Vol. TPH
Haz. Waste
General Chemistry
Other

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
2/20/07	2:18	Rw-1	GROUNDWATER	COMPOSITE	40mL VOA Vial	HCl	YES	
	2:23	Rw-2						
	2:31	Rw-3						
	2:38	Rw-4						
	2:44	Bio-2W						
	2:49	Bio-3W						
	2:56	Bio-1W						

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation

- [ ] YES [ ] NO MCP Data Certification required.
- [ ] YES [ ] NO MCP Drinking Water Sample included.
  (Requires collection of contingent duplicate sample. Trip blanks are also required, if VOA sample collected).

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
[ ] CT	[ ] MCP GW-1/S-1	[ ] PWS Form
[ ] ME	[ ] MCP GW-2/S-2	[ ] MWRA
[ ] MA	[ ] NY STARS	[ ] _____
[ ] NH	[ ] Drinking Water	
[ ] NY	[ ] Wastewater	
[ ] RI	[ ] Waste Disposal	
[ ] VT	[ ] Dredge Material	
[ ] ___	[ ] _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
[ ] Sample Duplicate	[ ] Please use sample: _____
[ ] Matrix Spike	
[ ] Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time		
Relinquished by Sampler: Bruce Oborsky	2/20/07	2:10	Received by:	Receipt Temperature: [ ] Ice [ ] Refrigerated 2 °C Recommended
Relinquished by:	2/26/07	1:00	Received by:	Container Count: 21
Relinquished by:	2/26/07	1:30	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: [X] GWA Courier [ ] Express Mail [ ] Federal Express [ ] UPS [ ] Pond [ ] _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3809-WL	Analyzed:	03-08-07 19:57	Analyzed:	03-08-07 20:26
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	11	111 %	10	11	112 %	2 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.6	96 %	10	9.5	95 %	2 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	11	107 %	10	10	100 %	7 %	70 - 130 %	25%
74-83-9	Bromomethane	10	11	106 %	10	10	102 %	3 %	70 - 130 %	25%
75-00-3	Chloroethane	10	10	103 %	10	10	102 %	1 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	11	107 %	10	10	104 %	3 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	20	102 %	20	21	104 %	2 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	10	100 %	10	9.9	99 %	0 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	22	112 %	20	22	108 %	4 %	70 - 130 %	25%
67-64-1	Acetone	20	19	95 %	20	21	104 %	9 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	20	101 %	20	20	102 %	0 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.7	97 %	10	10	100 %	4 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.7	97 %	10	9.8	98 %	1 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	11	109 %	10	11	112 %	3 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.9	99 %	10	9.3	93 %	6 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	9.9	99 %	10	10	101 %	2 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	25	123 %	20	24	119 %	3 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	111 %	10	11	112 %	1 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	22	108 %	20	20	101 %	6 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.8	98 %	10	9.9	99 %	1 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9	90 %	10	8.8	88 %	3 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.4	94 %	10	9	90 %	5 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	8.5	85 %	10	8.3	83 %	2 %	70 - 130 %	25%
71-43-2	Benzene	10	8.8	88 %	10	8.5	85 %	3 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.7	97 %	10	11	107 %	9 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	8.9	89 %	10	9	90 %	0 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	8.9	89 %	10	8.9	89 %	0 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	10	102 %	10	10	101 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	9.9	99 %	10	9.9	99 %	0 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	330	164 % q	200	330	165 % q	1 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	9.3	93 %	10	9.3	93 %	0 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	19	97 %	20	19	97 %	0 %	70 - 130 %	25%
108-88-3	Toluene	10	9.1	91 %	10	8.9	89 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.1	91 %	10	9.8	98 %	7 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.7	97 %	10	10	102 %	5 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	10	103 %	10	11	106 %	3 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	9.5	95 %	10	10	100 %	5 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	19	95 %	20	20	100 %	6 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	114 %	10	12	121 %	7 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	105 %	10	11	109 %	4 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.8	98 %	10	10	100 %	3 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	105 %	10	11	106 %	1 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.5	95 %	10	9.6	96 %	1 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	99 %	20	20	98 %	1 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	9.9	99 %	10	9.6	96 %	3 %	70 - 130 %	25%
100-42-5	Styrene	10	9.8	98 %	10	10	100 %	2 %	70 - 130 %	25%
75-25-2	Bromoform	10	12	118 %	10	12	123 %	4 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	8.1	81 %	10	8	80 %	2 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3809-WL	Analyzed:	03-08-07 19:57	Analyzed:	03-08-07 20:26
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.5	95 %	10	9.6	96 %	1 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	9.1	91 %	10	9.3	93 %	2 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	10	101 %	10	11	107 %	5 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	8.2	82 %	10	8	80 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	8.6	86 %	10	8.6	86 %	1 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	8.4	84 %	10	8.3	83 %	1 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	8.7	87 %	10	8.7	87 %	0 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	8.3	83 %	10	8.4	84 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	8.9	89 %	10	8.8	88 %	0 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	8.4	84 %	10	8.2	82 %	3 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9	90 %	10	9	90 %	0 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	8.7	87 %	10	8.5	85 %	3 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9	90 %	10	9	90 %	1 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.2	92 %	10	9.4	94 %	2 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	8.3	83 %	10	8.1	81 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	8.3	83 %	10	8.7	87 %	5 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.6	96 %	10	9.9	99 %	3 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.1	91 %	10	9.1	91 %	1 %	70 - 130 %	25%
91-20-3	Naphthalene	10	9.5	95 %	10	9.9	99 %	4 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	9.5	95 %	10	10	101 %	7 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	250	123 %	200	250	123 %	1 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.7	87 %	10	8.9	89 %	3 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.3	93 %	10	9.2	92 %	1 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	9.1	91 %	10	9.4	94 %	3 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	11	111 %	10	12	119 %		70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	10	9.7	97 %		70 - 130 %
Toluene-d_8	10	11	105 %	10	11	106 %		70 - 130 %
4-Bromofluorobenzene	10	8.8	88 %	10	9.1	91 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3809-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 03-08-07 21:24
Analyst: CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3809-WB	Analyzed:	03-08-07 21:24
Matrix:	Aqueous	Analyst:	CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	113 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.5	95 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

FLORIDA

Department of Health, Bureau of Laboratories, E87643 — SDWA, CWA, RCRA/CERCLA
http://www.floridadep.org/labs/qa/dohforms.htm

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LA000054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
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228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

March 12, 2007

Mr. Jon Aisner
WEB Engineering
106 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical Corporation/04-E-037**
Lab ID: **104387**
Received: **02-26-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/ajh
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name:	General Chemical Corporation
Project Number:	04-E-037
Scheduled Due Date:	03-12-07
Laboratory Number:	104387

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 02-26-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
104387-1	RW-7	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104387-2	RW-5D	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104387-3	BIO-2	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104387-4	BIO-1	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104387-5	CU-2	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104387-6	CU-1	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates
104387-7	BIO-3	Aqueous	02-23-07	EPA 8260B Volatile Organics with Oxygenates

Notes:

1. Project 104387 was received at a temperature of 2 C.

Results will be mailed to:

Jon Aisner
WEB Engineering
106 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please reply to this e-mail or call 508-759-4441 and ask to speak with Karyn Raymond, Project Manager.

Your project is scheduled for completion on 03-12-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact Karyn to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical Corporation/04-E-037**
Client: **WEB Engineering**
Lab ID: **104387**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **02-26-07**

Temperature: **2'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104387-1	RW-7		Aqueous	2/23/07 12:00	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876859	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876854	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876847	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104387-2	RW-5D		Aqueous	2/23/07 12:13	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C896797	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C896785	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C876853	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104387-3	BIO-2		Aqueous	2/23/07 13:05	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876840	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876834	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876829	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104387-4	BIO-1		Aqueous	2/23/07 13:13	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876846	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876823	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876817	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104387-5	CU-2		Aqueous	2/23/07 13:27	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C896821	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C896809	40 mL VOA Vial	Proline	BX23329	HCL	R-4913G	09-14-06	n/a	
C876793	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104387-6	CU-1		Aqueous	2/23/07 13:37	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876841	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876835	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876799	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104387-7	BIO-3		Aqueous	2/23/07 13:43	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C876848	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876811	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	
C876805	40 mL VOA Vial	Proline	BX23818	HCL	R-4868D	12-28-06	n/a	

GROUNDWATER ANALYTICAL

Data Certification

Project: General Chemical Corporation/04-E-037
Client: WEB Engineering

Lab ID: 104387
Received: 02-26-07 17:30

MA DEP Compendium of Analytical Methods

Project Location: n/a
MA DEP RTN: n/a

This Form provides certifications for the following data set:

EPA 8260B: 104387-1,-2,-3,-4,-5,-6,-7

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S - SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	No
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [signature]
Position: Operations Manager
Printed Name: Eric H. Jensen
Date: 03-12-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-7	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-01	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 12:00	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 16:19	Dilution Factor:	200
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	100
74-87-3	Chloromethane	BRL		ug/L	100
75-01-4	Vinyl Chloride	930		ug/L	100
74-83-9	Bromomethane	BRL		ug/L	100
75-00-3	Chloroethane	BRL		ug/L	100
75-69-4	Trichlorofluoromethane	BRL		ug/L	100
60-29-7	Diethyl Ether	BRL		ug/L	400
75-35-4	1,1-Dichloroethene	340		ug/L	100
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	1000
67-64-1	Acetone	BRL		ug/L	2000
75-15-0	Carbon Disulfide	BRL		ug/L	1000
75-09-2	Methylene Chloride	BRL		ug/L	500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	100
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	100
75-34-3	1,1-Dichloroethane	930		ug/L	100
594-20-7	2,2-Dichloropropane	BRL		ug/L	100
156-59-2	*cis*-1,2-Dichloroethene	7,400		ug/L	100
78-93-3	2-Butanone (MEK)	BRL		ug/L	1000
74-97-5	Bromochloromethane	BRL		ug/L	100
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	1000
67-66-3	Chloroform	BRL		ug/L	100
71-55-6	1,1,1-Trichloroethane	2,900		ug/L	100
56-23-5	Carbon Tetrachloride	BRL		ug/L	100
563-58-6	1,1-Dichloropropene	BRL		ug/L	100
71-43-2	Benzene	BRL		ug/L	100
107-06-2	1,2-Dichloroethane	BRL		ug/L	100
79-01-6	Trichloroethene	2,600		ug/L	100
78-87-5	1,2-Dichloropropane	BRL		ug/L	100
74-95-3	Dibromomethane	BRL		ug/L	100
75-27-4	Bromodichloromethane	BRL		ug/L	100
123-91-1	1,4-Dioxane	BRL		ug/L	100000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	100
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	1000
108-88-3	Toluene	BRL		ug/L	100
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	100
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	100
127-18-4	Tetrachloroethene	6,600		ug/L	100
142-28-9	1,3-Dichloropropane	BRL		ug/L	100
591-78-6	2-Hexanone	BRL		ug/L	1000
124-48-1	Dibromochloromethane	BRL		ug/L	100
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	100
108-90-7	Chlorobenzene	BRL		ug/L	100
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	100
100-41-4	Ethylbenzene	BRL		ug/L	100
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	100
95-47-6	*ortho*-Xylene	BRL		ug/L	100

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-7	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-01	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 12:00	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 16:19	Dilution Factor:	200
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	100
75-25-2	Bromoform	BRL		ug/L	100
98-82-8	Isopropylbenzene	BRL		ug/L	100
108-86-1	Bromobenzene	BRL		ug/L	100
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	100
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	100
103-65-1	*n*-Propylbenzene	BRL		ug/L	100
95-49-8	2-Chlorotoluene	BRL		ug/L	100
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	100
106-43-4	4-Chlorotoluene	BRL		ug/L	100
98-06-6	*tert*-Butylbenzene	BRL		ug/L	100
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	100
135-98-8	*sec*-Butylbenzene	BRL		ug/L	100
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	100
99-87-6	4-Isopropyltoluene	BRL		ug/L	100
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	100
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	100
104-51-8	*n*-Butylbenzene	BRL		ug/L	100
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	100
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	100
87-68-3	Hexachlorobutadiene	BRL		ug/L	100
91-20-3	Naphthalene	BRL		ug/L	100
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	100
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	4000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	100
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	100
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	100

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	111 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.4	94 %	70 - 130 %
Toluene-d_8	10	10	105 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**RW-5D**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104387-02**	QC Batch ID:	**VM4-3805-W**
Sampled:	**02-23-07 12:13**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-06-07 16:48**	Dilution Factor:	**2000**
Analyst:	**KMC**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1000
74-87-3	Chloromethane	BRL		ug/L	1000
75-01-4	Vinyl Chloride	BRL		ug/L	1000
74-83-9	Bromomethane	BRL		ug/L	1000
75-00-3	Chloroethane	BRL		ug/L	1000
75-69-4	Trichlorofluoromethane	BRL		ug/L	1000
60-29-7	Diethyl Ether	BRL		ug/L	4000
75-35-4	1,1-Dichloroethene	3,100		ug/L	1000
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	10000
67-64-1	Acetone	BRL		ug/L	20000
75-15-0	Carbon Disulfide	BRL		ug/L	10000
75-09-2	Methylene Chloride	28,000		ug/L	5000
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	1000
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	1000
75-34-3	1,1-Dichloroethane	BRL		ug/L	1000
594-20-7	2,2-Dichloropropane	BRL		ug/L	1000
156-59-2	*cis*-1,2-Dichloroethene	11,000		ug/L	1000
78-93-3	2-Butanone (MEK)	BRL		ug/L	10000
74-97-5	Bromochloromethane	BRL		ug/L	1000
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10000
67-66-3	Chloroform	BRL		ug/L	1000
71-55-6	1,1,1-Trichloroethane	8,000		ug/L	1000
56-23-5	Carbon Tetrachloride	BRL		ug/L	1000
563-58-6	1,1-Dichloropropene	BRL		ug/L	1000
71-43-2	Benzene	BRL		ug/L	1000
107-06-2	1,2-Dichloroethane	BRL		ug/L	1000
79-01-6	Trichloroethene	20,000		ug/L	1000
78-87-5	1,2-Dichloropropane	BRL		ug/L	1000
74-95-3	Dibromomethane	BRL		ug/L	1000
75-27-4	Bromodichloromethane	BRL		ug/L	1000
123-91-1	1,4-Dioxane	BRL		ug/L	1000000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	1000
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10000
108-88-3	Toluene	BRL		ug/L	1000
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	1000
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1000
127-18-4	Tetrachloroethene	78,000		ug/L	1000
142-28-9	1,3-Dichloropropane	BRL		ug/L	1000
591-78-6	2-Hexanone	BRL		ug/L	10000
124-48-1	Dibromochloromethane	BRL		ug/L	1000
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1000
108-90-7	Chlorobenzene	BRL		ug/L	1000
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1000
100-41-4	Ethylbenzene	BRL		ug/L	1000
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	1000
95-47-6	*ortho*-Xylene	BRL		ug/L	1000

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-5D	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-02	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 12:13	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 16:48	Dilution Factor:	2000
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1000
75-25-2	Bromoform	BRL		ug/L	1000
98-82-8	Isopropylbenzene	BRL		ug/L	1000
108-86-1	Bromobenzene	BRL		ug/L	1000
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1000
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1000
103-65-1	*n*-Propylbenzene	BRL		ug/L	1000
95-49-8	2-Chlorotoluene	BRL		ug/L	1000
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1000
106-43-4	4-Chlorotoluene	BRL		ug/L	1000
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1000
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1000
135-98-8	*sec*-Butylbenzene	BRL		ug/L	1000
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1000
99-87-6	4-Isopropyltoluene	BRL		ug/L	1000
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1000
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1000
104-51-8	*n*-Butylbenzene	BRL		ug/L	1000
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1000
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1000
87-68-3	Hexachlorobutadiene	BRL		ug/L	1000
91-20-3	Naphthalene	BRL		ug/L	1000
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1000
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1000
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1000
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	1000

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	111 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	102 %	70 - 130 %
Toluene-d_8	10	10	103 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-03	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 13:05	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 17:17	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	420		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1,100		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	9,900		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	910		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	7,900		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	4,000		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	320		ug/L	250
79-01-6	Trichloroethene	7,900		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	28,000	e	ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-03	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 13:05	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 17:17	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	112 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.4	94 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-03RA1	QC Batch ID:	VM4-3809-W
Sampled:	02-23-07 13:05	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-09-07 01:26	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	880		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	8,900		ug/L	2500
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	810		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*- 1,2-Dichloroethene	7,400		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	3,300		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	7,100		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	25,000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	500
95-47-6	*ortho*- Xylene	BRL		ug/L	500

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-03RA1	QC Batch ID:	VM4-3809-W
Sampled:	02-23-07 13:05	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-09-07 01:26	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	114 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	100 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**BIO-1**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104387-04**	QC Batch ID:	**VM4-3805-W**
Sampled:	**02-23-07 13:13**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-06-07 17:46**	Dilution Factor:	**500**
Analyst:	**KMC**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1,300		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	10,000		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	970		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	8,500		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	4,400		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	8,400		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	29,000	e	ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-1	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-04	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 13:13	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 17:46	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*- Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	12	116 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	97 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9.0	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**BIO-1**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104387-04RA1**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 13:13**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 01:55**	Dilution Factor:	**1000**
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	**1,100**		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	**10,000**		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	**910**		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	**7,900**		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	**4,100**		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	**8,000**		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	**28,000**		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**BIO-1**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104387-04RA1**	QC Batch ID:	**VM4-3809-W**
Sampled:	**02-23-07 13:13**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-09-07 01:55**	Dilution Factor:	**1000**
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**109 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	9.2	**92 %**	70 - 130 %
Toluene-d_8	10	10	**104 %**	70 - 130 %
4-Bromofluorobenzene	10	9.2	**92 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	CU-2	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-05	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 13:27	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 18:15	Dilution Factor:	200
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	100
74-87-3	Chloromethane	BRL		ug/L	100
75-01-4	Vinyl Chloride	BRL		ug/L	100
74-83-9	Bromomethane	BRL		ug/L	100
75-00-3	Chloroethane	BRL		ug/L	100
75-69-4	Trichlorofluoromethane	BRL		ug/L	100
60-29-7	Diethyl Ether	BRL		ug/L	400
75-35-4	1,1-Dichloroethene	790		ug/L	100
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	1000
67-64-1	Acetone	BRL		ug/L	2000
75-15-0	Carbon Disulfide	BRL		ug/L	1000
75-09-2	Methylene Chloride	BRL		ug/L	500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	100
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	100
75-34-3	1,1-Dichloroethane	730		ug/L	100
594-20-7	2,2-Dichloropropane	BRL		ug/L	100
156-59-2	*cis*-1,2-Dichloroethene	7,400		ug/L	100
78-93-3	2-Butanone (MEK)	BRL		ug/L	1000
74-97-5	Bromochloromethane	BRL		ug/L	100
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	1000
67-66-3	Chloroform	BRL		ug/L	100
71-55-6	1,1,1-Trichloroethane	1,500		ug/L	100
56-23-5	Carbon Tetrachloride	BRL		ug/L	100
563-58-6	1,1-Dichloropropene	BRL		ug/L	100
71-43-2	Benzene	BRL		ug/L	100
107-06-2	1,2-Dichloroethane	BRL		ug/L	100
79-01-6	Trichloroethene	2,000		ug/L	100
78-87-5	1,2-Dichloropropane	BRL		ug/L	100
74-95-3	Dibromomethane	BRL		ug/L	100
75-27-4	Bromodichloromethane	BRL		ug/L	100
123-91-1	1,4-Dioxane	BRL		ug/L	100000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	100
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	1000
108-88-3	Toluene	BRL		ug/L	100
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	100
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	100
127-18-4	Tetrachloroethene	880		ug/L	100
142-28-9	1,3-Dichloropropane	BRL		ug/L	100
591-78-6	2-Hexanone	BRL		ug/L	1000
124-48-1	Dibromochloromethane	BRL		ug/L	100
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	100
108-90-7	Chlorobenzene	BRL		ug/L	100
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	100
100-41-4	Ethylbenzene	BRL		ug/L	100
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	100
95-47-6	*ortho*-Xylene	BRL		ug/L	100

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	CU-2	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-05	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 13:27	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 18:15	Dilution Factor:	200
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	100
75-25-2	Bromoform	BRL		ug/L	100
98-82-8	Isopropylbenzene	BRL		ug/L	100
108-86-1	Bromobenzene	BRL		ug/L	100
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	100
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	100
103-65-1	*n*-Propylbenzene	BRL		ug/L	100
95-49-8	2-Chlorotoluene	BRL		ug/L	100
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	100
106-43-4	4-Chlorotoluene	BRL		ug/L	100
98-06-6	*tert*-Butylbenzene	BRL		ug/L	100
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	100
135-98-8	*sec*-Butylbenzene	BRL		ug/L	100
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	100
99-87-6	4-Isopropyltoluene	BRL		ug/L	100
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	100
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	100
104-51-8	*n*-Butylbenzene	BRL		ug/L	100
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	100
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	100
87-68-3	Hexachlorobutadiene	BRL		ug/L	100
91-20-3	Naphthalene	BRL		ug/L	100
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	100
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	4000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	100
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	100
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	100

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	108 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.9	89 %	70 - 130 %
Toluene-d_8	10	11	107 %	70 - 130 %
4-Bromofluorobenzene	10	9.0	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	CU-1	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-06	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 13:37	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 18:44	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	260		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	770		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	6,500		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	700		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	6,800		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	2,200		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	5,400		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	16,000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	CU-1	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-06	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 13:37	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 18:44	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	109 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.9	89 %	70 - 130 %
Toluene-d_8	10	10	103 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**BIO-3**	Matrix:	**Aqueous**
Project:	**General Chemical Corporation/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/Cool**
Laboratory ID:	**104387-07**	QC Batch ID:	**VM4-3805-W**
Sampled:	**02-23-07 13:43**	Instrument ID:	**MS-4 HP 6890**
Received:	**02-26-07 17:30**	Sample Volume:	**25 mL**
Analyzed:	**03-06-07 19:13**	Dilution Factor:	**500**
Analyst:	**KMC**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	270		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	680		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	8,800		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	710		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	6,500		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	2,700		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	6,000		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	19,000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-3	Matrix:	Aqueous
Project:	General Chemical Corporation/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	104387-07	QC Batch ID:	VM4-3805-W
Sampled:	02-23-07 13:43	Instrument ID:	MS-4 HP 6890
Received:	02-26-07 17:30	Sample Volume:	25 mL
Analyzed:	03-06-07 19:13	Dilution Factor:	500
Analyst:	KMC		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	111 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.5	85 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9.0	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical Corporation/04-E-037**	Lab ID:	**104387**
Client:	**WEB Engineering**	Received:	**02-26-07 17:30**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Samples 104387-01 through -07. Laboratory control sample (LCS) analyte tert-Butyl Alcohol was above recommended recovery limits for QC batch VM4-3805.
2. EPA 8260B Non-conformance: Samples 104387-03,-04. Reported results for selected analyte exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.
3. EPA 8260B Non-conformance: Samples 104387-03RA1 and ,-04RA1. Laboratory control sample (LCS) analyte 1,4-Dioxane was above recommended recovery limits for QC batch VM4-3809.
4. EPA 8260B Note: Samples 104387-01 though -07. Sample were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

GROUNDWATER ANALYTICAL

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CHAIN-OF-CUSTODY RECORD AND WORK ORDER

№ 201801

Project Name: General Chemical Corp	Firm: WRS Engineering
Project Number: 04-E-037	Address: 104 Longwater Drive
Sampler Name: Bruce Obodzinski	City / State / Zip: Abington MA 02061
Project Manager: Jan Aisner	Telephone: 781-878-7766

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- [x] STANDARD (10 Business Days)
- [ ] PRIORITY (5 Business Days)
- [ ] RUSH (RAN: _____)
  (Rush requires Rush Authorization Number)
- [ ] Please Email to: _____
- [ ] Please FAX to: 781-878-8004

BILLING

- [ ] Purchase Order No.: 04-E-037
- [ ] Third Party Billing: _____
- [ ] GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: Volatiles (8260 Search); Semivolatiles (Acid only, BN Only, TIC Norm); Pest/Herb/PCBs (Extractable, Vol.); Metals (Specify For Water Samples, Total, Dissolved); Petroleum Hydrocarbons (Ext. TPH, Vol. TPH); Haz. Waste; General Chemistry; Other

SDWA: 524.2 MTBE; 504.1 EDB/DBCP; Lead and Copper

NPDES: 624; 608 PCB Screen; 625; 608 Pesticides; 625 PAH Screen; 624 Petroleum; 625 Phenols; 608 Pesticides; 608 PCB Screen; Ammonia; Nitrate; Nitrite; Total Residual Chlorine; Oil & Grease; TPH

RCRA/TCP: 8260 40 MTBE; 8260 TCLP/MCP/GW-3; 8270 TCLP; 8270 PAH Screen; 8081 Pesticides; 8082 PCBs; 8151 Herbicides; 6010 RCRA; 7000 RCRA; 1311 TCLP; 1312 SPLP; Specify; TPH; Phenol; Ethyl Ether; Naphthalene; Organochlorine Pesticides; MA DEP VPH (with Targets); MA DEP EPH (with Targets); CT ETPH; NJ EPH; MA DEP EPH mod; EPH Carbon Range only; EPH with PAH; Hydrocarbon Fingerprint; EPH by 8270D/8015B MOD Quantitative Only; TPH by 8270D/8015B MOD Qualitative Only; Carbon Range Organics (GRO); TPH by GRO; MA DEP VPH (with Targets); VPH (Carbon Range) Only; 1,1 EDA; 1,2 EDA; 1,4 Dioxane; TCLP; Semi-VOA; Pesticides; Herbicides; Corrosivity (pH); Reactivity (ex Hydroxamic Acid); Ignitability; Halogens; Sulfides; Cyanides; Phenols; Metals; Sulfide; Chloride; Flashpoint; Ammonia; TKN; TOC; Percent Solids; Hexavalent Chromium; TKN (Distillation); TRPH (Distillation); Total Metals (8 RCRA/13 PP); Dissolved Metals (8 RCRA/13 PP); Total Cadmium; Total Chromium; Total Lead; Total Metals (8 RCRA); Dissolved Cadmium; Dissolved Chromium; Dissolved Lead; Total Metals (13 PP); Dissolved Metals (13 PP); Total Metals (Regulatory); Total Metals (MCP/GW-3/TCLP); Dissolved Metals (MCP/GW-3/TCLP); Total Metals (MCP/GW-3); Dissolved Metals (MCP/GW-3); Total Metals (Specify); Dissolved Metals (Specify); Mercury; Cyanide; Fluoride; Sulfide; Dissolved Phosphorus; Ammonia; TKN/TOC/TVO; Residue (TS/TSS/TDS); Alkalinity; Chloride; Sulfate; Nitrate; Nitrite; Orthophosphate; Hardness; Specific Conductance; Turbidity; Color; Total Coliform/Fecal Coliform; Other

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
2-27-01	12:00	RW-7	GROUNDWATER	COMP	3 X 40 ml VOA	HCl		
	12:13	RW-5D	GROUNDWATER	COMP	3 X 40 ml VOA	HCl		
	1:05	B10-2	GROUNDWATER	COMP	3 X 40 ml VOA	HCl		
	1:13	B10-1	GROUNDWATER	COMP	3 X 40 ml VOA	HCl		
	1:27	CW-2	GROUNDWATER	COMP	3 X 40 ml VOA	HCl		
	1:37	CW-1	GROUNDWATER	COMP	3 X 40 ml VOA	HCl		
	1:43	B10-3	GROUNDWATER	COMP	3 X 40 ml VOA	HCl		

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation

- [ ] YES [ ] NO MCP Data Certification required
- [ ] YES [ ] NO MCP Drinking Water Sample included.
  (Require collection of contingent duplicate sample. Trip blanks are also required, if VOA sample collected).

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
[ ] CT	[x] MCP GW-1/S-1	[ ] PWS Form
[ ] ME	[ ] MCP GW-2/S-2	[ ] MWRA
[x] MA	[ ] NY STARS	[ ] _____
[ ] NH	[ ] Drinking Water	
[ ] NY	[ ] Wastewater	
[ ] RI	[ ] Waste Disposal	
[ ] VT	[ ] Dredge Material	
[ ] ___	[ ] _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
[ ] Sample Duplicate	[ ] Please use sample: _____
[ ] Matrix Spike	
[ ] Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler: Bruce Obodzinski	Date/Time: 2-27-01 5PM	Received by:	Receipt Temperature: 2 °C [ ] Refrigerated 2-6 C Recommended
Relinquished by:	Date/Time: 2/26/01 1630	Received by:	Container Count: 21
Relinquished by:	Date/Time: 2/26/01 1730	Received by Laboratory:	Shipping/Airbill Number:
Method of Shipment: [x] GWA Courier [ ] Express Mail [ ] Federal Express [ ] UPS [ ] Hand [ ] _____			Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3805-WL	Analyzed:	03-06-07 11:24	Analyzed:	03-06-07 11:53
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	9.7	97 %	10	8.2	82 %	17 %	70 - 130 %	25%
74-87-3	Chloromethane	10	8.7	87 %	10	7.8	78 %	11 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	10	101 %	10	9	90 %	11 %	70 - 130 %	25%
74-83-9	Bromomethane	10	10	102 %	10	9.5	95 %	7 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.9	99 %	10	9.6	96 %	3 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	11	109 %	10	10	101 %	8 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	22	108 %	20	19	97 %	11 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	10	104 %	10	10	101 %	3 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	25	126 %	20	24	122 %	3 %	70 - 130 %	25%
67-64-1	Acetone	20	15	77 %	20	20	98 %	24 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	22	110 %	20	21	106 %	4 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.9	99 %	10	9.6	96 %	3 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	10	104 %	10	10	100 %	4 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	11	114 %	10	10	100 %	13 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.9	99 %	10	9.5	95 %	4 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.9	99 %	10	9.3	93 %	6 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	105 %	10	10	102 %	2 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	22	108 %	20	18	91 %	17 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	110 %	10	11	109 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	23	117 %	20	19	93 %	23 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	104 %	10	10	100 %	3 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	10	102 %	10	9.4	94 %	9 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	11	106 %	10	10	100 %	6 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.6	96 %	10	9.1	91 %	5 %	70 - 130 %	25%
71-43-2	Benzene	10	9.7	97 %	10	9.1	91 %	6 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	11	105 %	10	9.7	97 %	8 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	10	101 %	10	9.6	96 %	6 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	9.6	96 %	10	9.3	93 %	4 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	109 %	10	9.6	96 %	13 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	108 %	10	10	101 %	7 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	210	103 %	200	240	118 %	13 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	10	101 %	10	9.3	93 %	8 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	22	111 %	20	18	89 %	22 %	70 - 130 %	25%
108-88-3	Toluene	10	10	102 %	10	9.5	95 %	7 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	101 %	10	9.4	94 %	7 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	108 %	10	9.5	95 %	13 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	12	115 %	10	11	106 %	9 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	10	104 %	10	9.5	95 %	9 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	22	108 %	20	17	84 %	25 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	12	124 %	10	12	115 %	7 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	12	115 %	10	10	100 %	14 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	11	107 %	10	10	102 %	6 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	12	116 %	10	11	106 %	9 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	11	106 %	10	9.9	99 %	7 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	22	108 %	20	20	101 %	7 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	11	107 %	10	10	102 %	4 %	70 - 130 %	25%
100-42-5	Styrene	10	11	109 %	10	10	101 %	8 %	70 - 130 %	25%
75-25-2	Bromoform	10	13	126 %	10	11	111 %	13 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	8.8	88 %	10	8.7	87 %	2 %	70 - 130 %	25%

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3805-WL	Analyzed:	03-06-07 11:24	Analyzed:	03-06-07 11:53
Matrix:	Aqueous	Analyst:	KMC	Analyst:	KMC
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	103 %	10	10	100 %	3 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	9.9	99 %	10	8.5	85 %	15 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	11	112 %	10	9.3	93 %	18 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	8.9	89 %	10	9	90 %	1 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.4	94 %	10	9.1	91 %	3 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	9.2	92 %	10	9.1	91 %	1 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.2	92 %	10	9.1	91 %	1 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9.2	92 %	10	9.1	91 %	2 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	9.6	96 %	10	9.5	95 %	1 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	9.2	92 %	10	9.1	91 %	2 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.8	98 %	10	9.7	97 %	1 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.4	94 %	10	9.3	93 %	1 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.7	97 %	10	9.6	96 %	2 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	9.2	92 %	10	8.9	89 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	9.2	92 %	10	8.1	81 %	14 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	10	103 %	10	10	100 %	3 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	10	102 %	10	10	103 %	1 %	70 - 130 %	25%
91-20-3	Naphthalene	10	10	101 %	10	9.2	92 %	9 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	105 %	10	9.9	99 %	6 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	280	140 % q	200	220	110 %	24 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.9	89 %	10	8.7	87 %	3 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	8.9	89 %	10	8.6	86 %	4 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	9.7	97 %	10	8.4	84 %	13 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	113 %	10	11	113 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	108 %	10	9.5	95 %	70 - 130 %
Toluene-d_8	10	11	108 %	10	11	108 %	70 - 130 %
4-Bromofluorobenzene	10	8.9	89 %	10	9.3	93 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3805-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 03-06-07 12:22
Analyst: KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3805-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 03-06-07 12:22
Analyst: KMC

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	110 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3809-WL	Analyzed:	03-08-07 19:57	Analyzed:	03-08-07 20:26
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	11	111 %	10	11	112 %	2 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.6	96 %	10	9.5	95 %	2 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	11	107 %	10	10	100 %	7 %	70 - 130 %	25%
74-83-9	Bromomethane	10	11	106 %	10	10	102 %	3 %	70 - 130 %	25%
75-00-3	Chloroethane	10	10	103 %	10	10	102 %	1 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	11	107 %	10	10	104 %	3 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	20	102 %	20	21	104 %	2 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	10	100 %	10	9.9	99 %	0 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	22	112 %	20	22	108 %	4 %	70 - 130 %	25%
67-64-1	Acetone	20	19	95 %	20	21	104 %	9 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	20	101 %	20	20	102 %	0 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.7	97 %	10	10	100 %	4 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.7	97 %	10	9.8	98 %	1 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	11	109 %	10	11	112 %	3 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.9	99 %	10	9.3	93 %	6 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	9.9	99 %	10	10	101 %	2 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	25	123 %	20	24	119 %	3 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	111 %	10	11	112 %	1 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	22	108 %	20	20	101 %	6 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.8	98 %	10	9.9	99 %	1 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9	90 %	10	8.8	88 %	3 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.4	94 %	10	9	90 %	5 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	8.5	85 %	10	8.3	83 %	2 %	70 - 130 %	25%
71-43-2	Benzene	10	8.8	88 %	10	8.5	85 %	3 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.7	97 %	10	11	107 %	9 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	8.9	89 %	10	9	90 %	0 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	8.9	89 %	10	8.9	89 %	0 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	10	102 %	10	10	101 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	9.9	99 %	10	9.9	99 %	0 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	330	164 % q	200	330	165 % q	1 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	9.3	93 %	10	9.3	93 %	0 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	19	97 %	20	19	97 %	0 %	70 - 130 %	25%
108-88-3	Toluene	10	9.1	91 %	10	8.9	89 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.1	91 %	10	9.8	98 %	7 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.7	97 %	10	10	102 %	5 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	10	103 %	10	11	106 %	3 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	9.5	95 %	10	10	100 %	5 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	19	95 %	20	20	100 %	6 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	114 %	10	12	121 %	7 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	105 %	10	11	109 %	4 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.8	98 %	10	10	100 %	3 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	105 %	10	11	106 %	1 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.5	95 %	10	9.6	96 %	1 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	99 %	20	20	98 %	1 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	9.9	99 %	10	9.6	96 %	3 %	70 - 130 %	25%
100-42-5	Styrene	10	9.8	98 %	10	10	100 %	2 %	70 - 130 %	25%
75-25-2	Bromoform	10	12	118 %	10	12	123 %	4 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	8.1	81 %	10	8	80 %	2 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3809-WL	Analyzed:	03-08-07 19:57	Analyzed:	03-08-07 20:26
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.5	95 %	10	9.6	96 %	1 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	9.1	91 %	10	9.3	93 %	2 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	10	101 %	10	11	107 %	5 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	8.2	82 %	10	8	80 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	8.6	86 %	10	8.6	86 %	1 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	8.4	84 %	10	8.3	83 %	1 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	8.7	87 %	10	8.7	87 %	0 %	70 - 130 %	25%
98-06-6	tert-Butylbenzene	10	8.3	83 %	10	8.4	84 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	8.9	89 %	10	8.8	88 %	0 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	10	8.4	84 %	10	8.2	82 %	3 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9	90 %	10	9	90 %	0 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	8.7	87 %	10	8.5	85 %	3 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9	90 %	10	9	90 %	1 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.2	92 %	10	9.4	94 %	2 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	8.3	83 %	10	8.1	81 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	8.3	83 %	10	8.7	87 %	5 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.6	96 %	10	9.9	99 %	3 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.1	91 %	10	9.1	91 %	1 %	70 - 130 %	25%
91-20-3	Naphthalene	10	9.5	95 %	10	9.9	99 %	4 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	9.5	95 %	10	10	101 %	7 %	70 - 130 %	25%
75-65-0	tert-Butyl Alcohol (TBA)	200	250	123 %	200	250	123 %	1 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.7	87 %	10	8.9	89 %	3 %	70 - 130 %	25%
637-92-3	Ethyl tert-butyl Ether (ETBE)	10	9.3	93 %	10	9.2	92 %	1 %	70 - 130 %	25%
994-05-8	tert-Amyl Methyl Ether (TAME)	10	9.1	91 %	10	9.4	94 %	3 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	11	111 %	10	12	119 %		70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	10	9.7	97 %		70 - 130 %
Toluene-d_8	10	11	105 %	10	11	106 %		70 - 130 %
4-Bromofluorobenzene	10	8.8	88 %	10	9.1	91 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM4-3809-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 03-08-07 21:24
Analyst: CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-3809-WB	Analyzed:	03-08-07 21:24
Matrix:	Aqueous	Analyst:	CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	113 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.5	95 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

FLORIDA

Department of Health, Bureau of Laboratories, E87643 — SDWA, CWA, RCRA/CERCLA
http://www.floridadep.org/labs/qa/dohforms.htm

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LA000054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
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Buzzards Bay, MA 02532

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FAX (508) 759-4475
www.groundwateranalytical.com

March 23, 2007

Mr. Jon Aisner
WEB Engineering
106 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-005**
Lab ID: **104762**
Received: **03-09-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/jll
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name: General Chemical
Project Number: 04-E-005
Scheduled Due Date: 03-23-07

Laboratory Number: 104762

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 03-09-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
104762-1	RW-1	Aqueous	03-09-07	EPA 6010B Fe Mg Dissolved
104762-1	RW-1	Aqueous	03-09-07	EPA 6010B Hardness
104762-2	RW-2	Aqueous	03-09-07	EPA 6010B Fe Mg Dissolved
104762-2	RW-2	Aqueous	03-09-07	EPA 6010B Hardness
104762-3	RW-3	Aqueous	03-09-07	EPA 6010B Fe Mg Dissolved
104762-3	RW-3	Aqueous	03-09-07	EPA 6010B Hardness
104762-4	RW-4	Aqueous	03-09-07	EPA 6010B Fe Mg Dissolved
104762-4	RW-4	Aqueous	03-09-07	EPA 6010B Hardness
104762-5	RW-5D	Aqueous	03-09-07	EPA 6010B Fe Mg Dissolved
104762-5	RW-5D	Aqueous	03-09-07	EPA 6010B Hardness
104762-6	RW-7	Aqueous	03-09-07	EPA 6010B Fe Mg Dissolved
104762-6	RW-7	Aqueous	03-09-07	EPA 6010B Hardness

Notes:

1. Project 104762 was received at a temperature of 4 C.

Results will be mailed to: Jon Aisner
WEB Engineering
106 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please reply to this e-mail or call 508-759-4441 and ask to speak with Karyn Raymond, Project Manager.

Your project is scheduled for completion on 03-23-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact Karyn to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	General Chemical/04-E-005	Delivery:	GWA Courier	Temperature:	4.0°C
Client:	WEB Engineering	Airbill:	n/a	Chain of Custody:	Present
Lab ID:	104762	Lab Receipt:	03-09-07	Custody Seal(s):	n/a

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104762-1	RW-1		Aqueous	3/9/07 12:07	EPA 6010B Fe Mg Dissolved EPA 6010B Hardness			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C905369	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104762-2	RW-2		Aqueous	3/9/07 12:10	EPA 6010B Fe Mg Dissolved EPA 6010B Hardness			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C905378	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104762-3	RW-3		Aqueous	3/9/07 12:12	EPA 6010B Fe Mg Dissolved EPA 6010B Hardness			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C905362	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104762-4	RW-4		Aqueous	3/9/07 12:14	EPA 6010B Fe Mg Dissolved EPA 6010B Hardness			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C905358	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104762-5	RW-5D		Aqueous	3/9/07 11:42	EPA 6010B Fe Mg Dissolved EPA 6010B Hardness			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C905356	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
104762-6	RW-7		Aqueous	3/9/07 11:40	EPA 6010B Fe Mg Dissolved EPA 6010B Hardness			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C905370	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	

GROUNDWATER ANALYTICAL

Data Certification

Project: General Chemical/04-E-005
Client: WEB Engineering

Lab ID: 104762
Received: 03-09-07 18:07

MA DEP Compendium of Analytical Methods						
Project Location: n/a				MA DEP RTN: n/a		
This Form provides certifications for the following data set:						
EPA 6010B: 104762-1,-2,-3,-4,-5,-6						
Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )		
MCP SW-846 Methods Used	8260B ( )	8151A ( )	8330 ( )	6010B (X)	7470A/1A ( )	
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9012A[2] ( )	
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 5[3] ( )	Other ( )	
	1. List Release Tracking Number (RTN), if known.					
	2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method					
	3 S - SW-846 Methods 7000 Series. List individual method and analyte.					

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	Yes
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	No

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Operations Manager

Printed Name: Eric H. Jensen Date: 03-23-07

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	RW-1	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	250 mL Plastic
Client:	WEB Engineering	Preservation:	HNO3 / Cool
Laboratory ID:	104762-1	Preserved:	03-09-07 12:07
Sampled:	03-09-07 12:07	Filtered:	03-09-07 12:07
Received:	03-09-07 18:07		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B [1]	MN-1896-W	EPA 3005A	03-12-07 13:33	50 mL	CP-2 PE 3300	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	BRL		mg/L	0.1	1	03-13-07 09:39	EPA 6010B [1]
7439-95-4	Magnesium, Dissolved	4.1		mg/L	0.1	1	03-13-07 09:39	EPA 6010B [1]
NA	Total Hardness, Dissolv	110		mg/L	2	N/A	03-13-07 09:39	EPA 6010B [1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	RW-2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	250 mL Plastic
Client:	WEB Engineering	Preservation:	HNO3 / Cool
Laboratory ID:	104762-2	Preserved:	03-09-07 12:10
Sampled:	03-09-07 12:10	Filtered:	03-09-07 12:10
Received:	03-09-07 18:07		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B [1]	MN-1896-W	EPA 3005A	03-12-07 13:33	50 mL	ICP-2 PE 3300	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	36		mg/L	0.1	1	03-13-07 09:50	EPA 6010B [1]
7439-95-4	Magnesium, Dissolved	3.4		mg/L	0.1	1	03-13-07 09:50	EPA 6010B [1]
NA	Total Hardness, Dissolv	95		mg/L	2	N/A	03-13-07 09:50	EPA 6010B [1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	RW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	250 mL Plastic
Client:	WEB Engineering	Preservation:	HNO3 / Cool
Laboratory ID:	104762-3	Preserved:	03-09-07 12:12
Sampled:	03-09-07 12:12	Filtered:	03-09-07 12:12
Received:	03-09-07 18:07		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B [1]	MN-1896-W	EPA 3005A	03-12-07 13:33	50 mL	ICP-2 PE 3300	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	36		mg/L	0.1	1	03-13-07 09:53	EPA 6010B [1]
7439-95-4	Magnesium, Dissolved	4.7		mg/L	0.1	1	03-13-07 09:53	EPA 6010B [1]
NA	Total Hardness, Dissolv	110		mg/L	2	N/A	03-13-07 09:53	EPA 6010B [1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	RW-4	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	250 mL Plastic
Client:	WEB Engineering	Preservation:	HNO3 / Cool
Laboratory ID:	104762-4	Preserved:	03-09-07 12:14
Sampled:	03-09-07 12:14	Filtered:	03-09-07 12:14
Received:	03-09-07 18:07		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B [1]	MN-1896-W	EPA 3005A	03-12-07 13:33	50 mL	ICP-2 PE 3100	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	**0.2**		mg/L	0.1	1	03-13-07 09:56	EPA 6010B [1]
7439-95-4	Magnesium, Dissolved	**6.2**		mg/L	0.1	1	03-13-07 09:56	EPA 6010B [1]
NA	Total Hardness, Dissolv	**140**		mg/L	2	N/A	03-13-07 09:56	EPA 6010B [1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	RW-5D	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	250 mL Plastic
Client:	WEB Engineering	Preservation:	HNO3 / Cool
Laboratory ID:	104762-5	Preserved:	03-09-07 11:42
Sampled:	03-09-07 11:42	Filtered:	03-09-07 11:42
Received:	03-09-07 18:07		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B [1]	MN-1896-W	EPA 3005A	03-12-07 13:33	50 mL	ICP-2 PE 3300	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	8.5		mg/L	0.1	1	03-13-07 10:00	EPA 6010B [1]
7439-95-4	Magnesium, Dissolved	36		mg/L	0.1	1	03-13-07 10:00	EPA 6010B [1]
NA	Total Hardness, Dissolv	360		mg/L	2	N/A	03-13-07 10:00	EPA 6010B [1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	RW-7	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	250 mL Plastic
Client:	WEB Engineering	Preservation:	HNO3 / Cool
Laboratory ID:	104762-6	Preserved:	03-09-07 11:40
Sampled:	03-09-07 11:40	Filtered:	03-09-07 11:40
Received:	03-09-07 18:07		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B [1]	MN-1896-W	EPA 3005A	03-12-07 13:33	50 mL	ICP-2 PE 3300	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	**5.2**		mg/L	0.1	1	03-13-07 10:10	EPA 6010B [1]
7439-95-4	Magnesium, Dissolved	**4.3**		mg/L	0.1	1	03-13-07 10:10	EPA 6010B [1]
NA	Total Hardness, Dissolv	75		mg/L	2	N/A	03-13-07 10:10	EPA 6010B [1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical/04-E-005**	Lab ID:	**104762**
Client:	**WEB Engineering**	Received:	**03-09-07 18:07**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 6010B Note: Samples 104762-01 through -06. Samples were analyzed for selected target analytes, as requested by client.
2. Samples 104762-01 through -06 for Dissolved Metal Analysis were not received filtered. The samples were filtered and preserved with HNO3 by the laboratory upon receipt.

GROUNDWATER ANALYTICAL

228 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

№ 217321

Project Name: General Chemical	Firm: WEB Engineering
Project Number: 04-E-005	Address: 104 Longwater Drive
Sampler Name: Bruce Oborsky	City / State / Zip: Norwell MA 02061
Project Manager: Jon Risied	Telephone: 781-878-7765

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- [X] STANDARD (10 Business Days)
- [ ] PRIORITY (5 Business Days)
- [ ] RUSH (RAN- ____) (Rush requires Rush Authorization Number)
- [ ] Please Email to: ____
- [ ] Please FAX to: 781-878-8007

BILLING

- [ ] Purchase Order No.: 04-E-005
- [ ] Third Party Billing: ____
- [ ] GWA Quote: ____

ANALYSIS REQUEST

OPTIONS / SDWA / NPDES / RCRA

Volatiles | Semivolatiles | Pest/Herb/PCBs Extractable | Pest/Herb/PCBs Vol. | Metals | Petroleum Hydrocarbons Ext. (EPH) | Petroleum Hydrocarbons VPH | Haz Waste | General Chemistry | Other

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
3-9-07	12:07	Rw-1	GROUNDWATER	COMPOSITE	NUMBER 1	NONE	YES	
	12:10	Rw-2	DRINKING WATER	GRAB	40mL VOA Vial	HCl	NO	
	12:17	Rw-3	WASTEWATER		Nitric Acid Preserved 500mL Amber Glass	H2SO4		
	12:19	Rw-4	SOIL		500mL Amber Glass	NaOH		
	11:43	Rw-5D	SOIL/SOLID		250mL Amber Glass	Methanol		
	11:40	Rw-7	OTHER SOLID		250mL Glass Jar	Sodium Bisulfate		
			OTHER LIQUID		250mL Plastic	ZnAc		
					500mL Plastic			
					1 Liter Amber Glass			
					1 Liter Plastic			
					Other Glass			

Analyses requested: Total Hardness, Iron & Manganese

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Attirmation

- [ ] YES [ ] NO MCP Data Certification required.
- [ ] YES [ ] NO MCP Drinking Water Sample Included. (Require collection of contingent duplicate sample. Trip blank are also required, if VOA sample collected).

Signature: ____

Filter Samples

Page 15 of 15

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
[ ] CT	[ ] MCP GW-1/S-1	[ ] PWS Form
[ ] ME	[ ] MCP GW-2/S-2	[ ] MWRA
[X] MA	[ ] NY STARS	[ ] ____
[ ] NH	[ ] Drinking Water	
[ ] NY	[ ] Wastewater	
[ ] RI	[ ] Waste Disposal	
[ ] VT	[ ] Dredge Material	
[ ] ____	[ ] ____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project-specific unless prearranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
[ ] Sample Duplicate	[ ] Please use sample: ____
[ ] Matrix Spike	
[ ] Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof

	Date	Time		
Relinquished by Sampler: Bruce Oborsky	3-9-07	4:10PM	Received by:	Receipt Temperature: 4.0
Relinquished by:	3/9/07	1807	Received by:	Container Count: 6
Relinquished by:	Date	Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: [X] GWA Courier [ ] Express Mail [ ] Federal Express [ ] UPS [ ] Hand [ ] ____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

Category: Metals
Matrix: Aqueous
Units: mg/L

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Analyzed	Instrument ID	Analyst
LCS	EPA 6010B	MN-1896-WL	EPA 3005A	03-12-07 13:33	03-13-07 09:33	ICP-2 PE 3300	MWR
LCSD	EPA 6010B	MN-1896-WL	EPA 3005A	03-12-07 13:33	03-13-07 09:36	ICP-2 PE 3300	MWR

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits		Method
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	LCS	RPD	
7440-70-2	Calcium	10	9.8	98%	10	9.8	98%	0 %	80-120 %	20 %	EPA 6010B
7439-89-6	Iron	5.0	4.9	98%	5.0	4.9	98%	0 %	80-120 %	20 %	EPA 6010B
7439-95-4	Magnesium	10	9.8	98%	10	9.7	97%	1 %	80-120 %	20 %	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: Metals
Matrix: Aqueous

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B	MN-1896-WB	EPA 3005A	03-12-07 13:33	50 mL	CP-2 FE 3300	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-70-2	Calcium	BRL		mg/L	0.5	1	03-13-07 09:30	EPA 6010B
7439-89-6	Iron	BRL		mg/L	0.1	1	03-13-07 09:30	EPA 6010B
7439-95-4	Magnesium	BRL		mg/L	0.1	1	03-13-07 09:30	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996)

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

Groundwater Analytical, Inc., P.O. Box 1200, 228 Main Street, Buzzards Bay, MA 02532

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

FLORIDA

Department of Health, Bureau of Laboratories, E87643 — SDWA, CWA, RCRA/CERCLA
http://www.floridadep.org/labs/qa/dohforms.htm

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-11083 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

GROUNDWATER ANALYTICAL

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August 27, 2007

Mr. Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-005**
Lab ID: **109876**
Received: **08-13-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/elm
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name:	General Chemical
Project Number:	04-E-005
Scheduled Due Date:	08-27-07
Laboratory Number:	109876

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 08-13-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
109876-1	CV-2	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109876-2	BIO-3	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109876-3	BIO-1	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109876-4	RW-7	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109876-5	RW-5X	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates

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Notes:

1. Project 109876 was received at a temperature of 2.3 C.

Results will be mailed to: Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please send email to clientservices@groundwateranalytical.com or call 508-759-4441 and ask to speak to a Project Manager.

Your project is scheduled for completion on 08-27-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact a Project Manager to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Email: clientservices@groundwateranalytical.com

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical/04-E-005**
Client: **WEB Engineering**
Lab ID: **109876**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **08-13-07**

Temperature: **2.3'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109876-1	CV-2		Aqueous	8/10/07 14:36	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927842	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927841	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927840	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109876-2	BIO-3		Aqueous	8/10/07 14:39	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927845	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927844	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927843	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109876-3	BIO-1		Aqueous	8/10/07 14:44	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927847	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927846	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927837	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109876-4	RW-7		Aqueous	8/10/07 14:49	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927836	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927835	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927834	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109876-5	RW-5X		Aqueous	8/10/07 14:53	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927833	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927832	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927831	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

GROUNDWATER ANALYTICAL

Data Certification

Project: General Chemical/04-E-005
Client: WEB Engineering

Lab ID: 109876
Received: 08-13-07 19:00

MA DEP Compendium of Analytical Methods						
Project Location: n/a				MA DEP RTN: n/a		
This Form provides certifications for the following data set: EPA 8260B: 109876-1,-2,-3,-4,-5						
Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )		
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )	
	8270C ( )	8081A ( )	VPH ( )	6020A ( )	9012A[2] ( )	
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )	
1. List Release Tracking Number (RTN), if known.						
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method						
3. S - SW-846 Methods 7000 Series. List individual method and analyte.						

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	Yes
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [signature]
Position: Operations Manager
Printed Name: Eric H. Jensen
Date: 08-27-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	CV-2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-01	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 14:36	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 01:52	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	970		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	700		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	10000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	3600		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	7100		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	5500		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	CV-2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-01	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 14:36	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 01:52	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	106 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	107 %	70 - 130 %
Toluene-d_8	10	11	107 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-3	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-02	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 14:39	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 02:22	Dilution Factor:	200
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	100
74-87-3	Chloromethane	BRL		ug/L	100
75-01-4	Vinyl Chloride	110		ug/L	100
74-83-9	Bromomethane	BRL		ug/L	100
75-00-3	Chloroethane	BRL		ug/L	100
75-69-4	Trichlorofluoromethane	BRL		ug/L	100
60-29-7	Diethyl Ether	BRL		ug/L	400
75-35-4	1,1-Dichloroethene	780		ug/L	100
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	1000
67-64-1	Acetone	BRL		ug/L	2000
75-15-0	Carbon Disulfide	BRL		ug/L	1000
75-09-2	Methylene Chloride	5100		ug/L	500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	100
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	100
75-34-3	1,1-Dichloroethane	570		ug/L	100
594-20-7	2,2-Dichloropropane	BRL		ug/L	100
156-59-2	*cis*-1,2-Dichloroethene	9100		ug/L	100
78-93-3	2-Butanone (MEK)	BRL		ug/L	1000
74-97-5	Bromochloromethane	BRL		ug/L	100
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	1000
67-66-3	Chloroform	BRL		ug/L	100
71-55-6	1,1,1-Trichloroethane	3600		ug/L	100
56-23-5	Carbon Tetrachloride	BRL		ug/L	100
563-58-6	1,1-Dichloropropene	BRL		ug/L	100
71-43-2	Benzene	BRL		ug/L	100
107-06-2	1,2-Dichloroethane	BRL		ug/L	100
79-01-6	Trichloroethene	7100		ug/L	100
78-87-5	1,2-Dichloropropane	BRL		ug/L	100
74-95-3	Dibromomethane	BRL		ug/L	100
75-27-4	Bromodichloromethane	BRL		ug/L	100
123-91-1	1,4-Dioxane	BRL		ug/L	100000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	100
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	1000
108-88-3	Toluene	BRL		ug/L	100
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	100
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	100
127-18-4	Tetrachloroethene	22000	e	ug/L	100
142-28-9	1,3-Dichloropropane	BRL		ug/L	100
591-78-6	2-Hexanone	BRL		ug/L	1000
124-48-1	Dibromochloromethane	BRL		ug/L	100
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	100
108-90-7	Chlorobenzene	BRL		ug/L	100
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	100
100-41-4	Ethylbenzene	BRL		ug/L	100
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	100
95-47-6	*ortho*-Xylene	BRL		ug/L	100

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-3	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-02	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 14:39	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 02:22	Dilution Factor:	200
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	100
75-25-2	Bromoform	BRL		ug/L	100
98-82-8	Isopropylbenzene	BRL		ug/L	100
108-86-1	Bromobenzene	BRL		ug/L	100
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	100
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	100
103-65-1	*n*-Propylbenzene	BRL		ug/L	100
95-49-8	2-Chlorotoluene	BRL		ug/L	100
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	100
106-43-4	4-Chlorotoluene	BRL		ug/L	100
98-06-6	*tert*-Butylbenzene	BRL		ug/L	100
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	100
135-98-8	*sec*-Butylbenzene	BRL		ug/L	100
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	100
99-87-6	4-Isopropyltoluene	BRL		ug/L	100
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	100
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	100
104-51-8	*n*-Butylbenzene	BRL		ug/L	100
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	100
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	100
87-68-3	Hexachlorobutadiene	BRL		ug/L	100
91-20-3	Naphthalene	BRL		ug/L	100
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	100
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	4000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	100
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	100
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	100

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**110 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**107 %**	70 - 130 %
Toluene-d_8	10	11	**106 %**	70 - 130 %
4-Bromofluorobenzene	10	9	**90 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-3	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-02RA1	QC Batch ID:	VM7-2605-W
Sampled:	08-10-07 14:39	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 10:40	Dilution Factor:	500
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	680		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	4100		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	470		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	7800		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	3500		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	5900		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	19000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-3	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-02RA1	QC Batch ID:	VM7-2605-W
Sampled:	08-10-07 14:39	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 10:40	Dilution Factor:	500
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.6	96 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.7	97 %	70 - 130 %
Toluene-d_8	10	9.5	95 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-1	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-03	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 14:44	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 02:57	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	870		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	5600		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	550		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	8900		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	3800		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	7000		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	20000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-1	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-03	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 14:44	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 02:57	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	108 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.5	95 %	70 - 130 %
Toluene-d_8	10	11	107 %	70 - 130 %
4-Bromofluorobenzene	10	8.9	89 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-7	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-04	QC Batch ID:	VM7-2605-W
Sampled:	08-10-07 14:49	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 14:48	Dilution Factor:	200
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	100
74-87-3	Chloromethane	BRL		ug/L	100
75-01-4	Vinyl Chloride	180		ug/L	100
74-83-9	Bromomethane	BRL		ug/L	100
75-00-3	Chloroethane	BRL		ug/L	100
75-69-4	Trichlorofluoromethane	BRL		ug/L	100
60-29-7	Diethyl Ether	BRL		ug/L	400
75-35-4	1,1-Dichloroethene	250		ug/L	100
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	1000
67-64-1	Acetone	BRL		ug/L	2000
75-15-0	Carbon Disulfide	BRL		ug/L	1000
75-09-2	Methylene Chloride	BRL		ug/L	500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	100
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	100
75-34-3	1,1-Dichloroethane	270		ug/L	100
594-20-7	2,2-Dichloropropane	BRL		ug/L	100
156-59-2	*cis*-1,2-Dichloroethene	6400		ug/L	100
78-93-3	2-Butanone (MEK)	BRL		ug/L	1000
74-97-5	Bromochloromethane	BRL		ug/L	100
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	1000
67-66-3	Chloroform	BRL		ug/L	100
71-55-6	1,1,1-Trichloroethane	3100		ug/L	100
56-23-5	Carbon Tetrachloride	BRL		ug/L	100
563-58-6	1,1-Dichloropropene	BRL		ug/L	100
71-43-2	Benzene	BRL		ug/L	100
107-06-2	1,2-Dichloroethane	BRL		ug/L	100
79-01-6	Trichloroethene	2100		ug/L	100
78-87-5	1,2-Dichloropropane	BRL		ug/L	100
74-95-3	Dibromomethane	BRL		ug/L	100
75-27-4	Bromodichloromethane	BRL		ug/L	100
123-91-1	1,4-Dioxane	BRL		ug/L	100000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	100
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	1000
108-88-3	Toluene	BRL		ug/L	100
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	100
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	100
127-18-4	Tetrachloroethene	5200		ug/L	100
142-28-9	1,3-Dichloropropane	BRL		ug/L	100
591-78-6	2-Hexanone	BRL		ug/L	1000
124-48-1	Dibromochloromethane	BRL		ug/L	100
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	100
108-90-7	Chlorobenzene	BRL		ug/L	100
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	100
100-41-4	Ethylbenzene	BRL		ug/L	100
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	100
95-47-6	*ortho*-Xylene	BRL		ug/L	100

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-7	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-04	QC Batch ID:	VM7-2605-W
Sampled:	08-10-07 14:49	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 14:48	Dilution Factor:	200
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	100
75-25-2	Bromoform	BRL		ug/L	100
98-82-8	Isopropylbenzene	BRL		ug/L	100
108-86-1	Bromobenzene	BRL		ug/L	100
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	100
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	100
103-65-1	*n*-Propylbenzene	BRL		ug/L	100
95-49-8	2-Chlorotoluene	BRL		ug/L	100
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	100
106-43-4	4-Chlorotoluene	BRL		ug/L	100
98-06-6	*tert*-Butylbenzene	BRL		ug/L	100
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	100
135-98-8	sec-Butylbenzene	BRL		ug/L	100
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	100
99-87-6	4-Isopropyltoluene	BRL		ug/L	100
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	100
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	100
104-51-8	*n*-Butylbenzene	BRL		ug/L	100
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	100
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	100
87-68-3	Hexachlorobutadiene	BRL		ug/L	100
91-20-3	Naphthalene	BRL		ug/L	100
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	100
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	4000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	100
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	100
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	100

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	106 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	105 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-5X	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-05	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 14:53	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 03:56	Dilution Factor:	2000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1000
74-87-3	Chloromethane	BRL		ug/L	1000
75-01-4	Vinyl Chloride	BRL		ug/L	1000
74-83-9	Bromomethane	BRL		ug/L	1000
75-00-3	Chloroethane	BRL		ug/L	1000
75-69-4	Trichlorofluoromethane	BRL		ug/L	1000
60-29-7	Diethyl Ether	BRL		ug/L	4000
75-35-4	1,1-Dichloroethene	2600		ug/L	1000
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	10000
67-64-1	Acetone	BRL		ug/L	20000
75-15-0	Carbon Disulfide	BRL		ug/L	10000
75-09-2	Methylene Chloride	20000		ug/L	5000
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	1000
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	1000
75-34-3	1,1-Dichloroethane	BRL		ug/L	1000
594-20-7	2,2-Dichloropropane	BRL		ug/L	1000
156-59-2	*cis*-1,2-Dichloroethene	12000		ug/L	1000
78-93-3	2-Butanone (MEK)	BRL		ug/L	10000
74-97-5	Bromochloromethane	BRL		ug/L	1000
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10000
67-66-3	Chloroform	BRL		ug/L	1000
71-55-6	1,1,1-Trichloroethane	7700		ug/L	1000
56-23-5	Carbon Tetrachloride	BRL		ug/L	1000
563-58-6	1,1-Dichloropropene	BRL		ug/L	1000
71-43-2	Benzene	BRL		ug/L	1000
107-06-2	1,2-Dichloroethane	BRL		ug/L	1000
79-01-6	Trichloroethene	18000		ug/L	1000
78-87-5	1,2-Dichloropropane	BRL		ug/L	1000
74-95-3	Dibromomethane	BRL		ug/L	1000
75-27-4	Bromodichloromethane	BRL		ug/L	1000
123-91-1	1,4-Dioxane	BRL		ug/L	1000000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	1000
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10000
108-88-3	Toluene	BRL		ug/L	1000
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	1000
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1000
127-18-4	Tetrachloroethene	61000		ug/L	1000
142-28-9	1,3-Dichloropropane	BRL		ug/L	1000
591-78-6	2-Hexanone	BRL		ug/L	10000
124-48-1	Dibromochloromethane	BRL		ug/L	1000
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1000
108-90-7	Chlorobenzene	BRL		ug/L	1000
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1000
100-41-4	Ethylbenzene	BRL		ug/L	1000
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	1000
95-47-6	*ortho*-Xylene	BRL		ug/L	1000

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-5X	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109876-05	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 14:53	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 03:56	Dilution Factor:	2000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1000
75-25-2	Bromoform	BRL		ug/L	1000
98-82-8	Isopropylbenzene	BRL		ug/L	1000
108-86-1	Bromobenzene	BRL		ug/L	1000
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1000
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1000
103-65-1	*n*-Propylbenzene	BRL		ug/L	1000
95-49-8	2-Chlorotoluene	BRL		ug/L	1000
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1000
106-43-4	4-Chlorotoluene	BRL		ug/L	1000
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1000
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1000
135-98-8	*sec*-Butylbenzene	BRL		ug/L	1000
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1000
99-87-6	4-Isopropyltoluene	BRL		ug/L	1000
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1000
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1000
104-51-8	*n*-Butylbenzene	BRL		ug/L	1000
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1000
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1000
87-68-3	Hexachlorobutadiene	BRL		ug/L	1000
91-20-3	Naphthalene	BRL		ug/L	1000
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1000
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1000
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1000
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	1000

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**106 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**106 %**	70 - 130 %
Toluene-d_8	10	11	**106 %**	70 - 130 %
4-Bromofluorobenzene	10	9.1	**91 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical/04-E-005**	Lab ID:	**109876**
Client:	**WEB Engineering**	Received:	**08-13-07 19:00**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. Sample identified on container as "RW-5D" was reported as "RW-5X" per Chain of Custody.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Sample 109876-2. Reported results for selected analyte exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.
2. EPA 8260B Note: Samples 109876-1 through -5. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.
3. EPA 8260B Note: Samples 109876-2 through -5. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

GROUNDWATER ANALYTICAL

228 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: General Chemical	Firm: WED Engineering
Project Number: 04-E-005	Address: 104 Longwater Drive
Sampler Name: Bruce Obodsky	City / State / Zip: Norwell MA 02061
Project Manager: Jon Alsted	Telephone: 781-878-7766

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- [X] STANDARD (10 Business Days)
- [ ] PRIORITY (5 Business Days)
- [ ] RUSH (RAN- _____)
  (Rush requires Rush Authorization Number)
- [ ] Please Email to: _____
- [ ] Please FAX to: 781-878-8044

BILLING

- [ ] Purchase Order No.: _____
- [ ] Third Party Billing: _____
- [ ] GWA Quote: _____

ANALYSIS REQUEST

Options: TPC Sheets

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix: Groundwater	Drinking Water	Wastewater	Soil	Other Solid	Sediment / Other	Type: Composite	Grab	Container(s): Number	Container(s): 40ml Vials	Container(s): 250ml Amber Glass	Container(s): 500ml Amber Glass	Container(s): 1 Liter Amber Glass	Container(s): 250ml Plastic	Container(s): 500ml Plastic	Container(s): 1 Liter Plastic	Container(s): Encore	Container(s): Other	Preservation: HCl	Preservation: HNO3	Preservation: H2SO4	Preservation: NaOH	Preservation: Ascorbic Acid	Preservation: Other	Filtered: Yes	Filtered: No	LABORATORY NUMBER (Lab Use Only)
8/10/07	2:36	CV-2	X							X	3	X									X							
	2:39	Bio-3	X							X	3	X									X							
	2:44	Bio-1	X							X	3	X									X							
	2:49	RW-7	X							X	3	X									X							
	2:53	RW-5X	X							X	3	X									X							

ANALYSIS REQUEST columns: VOCs (TPC Sheets); SVOCs (1270); NYDES (PCB); Pesticides/PCBs (Extractable, Volatile); Metals (Specify For Water Samples: Total, Dissolved); Petroleum Hydrocarbons (Ext. TPH, Vol. TPH); Haz. Waste; General Chemistry; Other

Sampler: Please Print & Sign	Bruce Obodsky
Date Sampled	8/10/07
Time Sampled	2:36
Date Results Needed	8/17/07
No. of Containers	15
Turnaround Time	5 Day

REMARKS / SPECIAL INSTRUCTIONS

- [ ] YES [ ] NO MCP Data Certification required
- [ ] YES [ ] NO MCP Drinking Water Sample included.
  (Volatile analyses require duplicate collection and Trip Blanks).
- [ ] Analyze Duplicates and Trips Blanks only if positive results
- [ ] YES [ ] NO RCP Data Certification required

Signature: _____

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DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
[ ] CT	[X] MCP GW-1/S-1	[ ] PWS Form
[ ] ME	[ ] MCP GW-2/S-2	[ ] MWPA
[X] MA	[ ] NY STARS	[ ] _____
[ ] NH	[ ] Drinking Water	
[ ] NY	[ ] Wastewater	
[ ] RI	[ ] Waste Disposal	
[ ] VT	[ ] Dredge Material	
[ ] _____	[ ] _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
[ ] Sample Duplicate	[ ] Please use sample
[ ] Matrix Spike	_____
[ ] Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time			
Relinquished by Sampler: Bruce Obodsky	8/13/07	6PM	Received by: Alan Maddigan	8/13/07	10135
Relinquished by: Alan Maddigan	8/13/07	7:00	Received by: Tracy Almeida		
Relinquished by:	Date	Time	Received by Laboratory:		

Method of Shipment: [ ] GWA Courier [ ] Express Mail [ ] Federal Express [ ] UPS [ ] Hand [ ] _____

Receipt Temperature: 2.3°C
Container Count: 15
Shipping/Airbill Number:
Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2604-WL	Analyzed:	08-23-07 21:03	Analyzed:	08-23-07 21:34
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	7	70 %	10	8.1	81 %	14 %	70 - 130 %	25%
74-87-3	Chloromethane	10	7.7	77 %	10	8.7	87 %	12 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	8.3	83 %	10	9.4	94 %	12 %	70 - 130 %	25%
74-83-9	Bromomethane	10	8.8	88 %	10	9.6	96 %	8 %	70 - 130 %	25%
75-00-3	Chloroethane	10	8.2	82 %	10	8.9	89 %	8 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	8.9	89 %	10	9.8	98 %	10 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	87 %	20	18	92 %	5 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	8.5	85 %	10	9.5	95 %	11 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	16	81 %	20	18	89 %	10 %	70 - 130 %	25%
67-64-1	Acetone	20	20	98 %	20	19	97 %	1 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	16	78 %	20	17	85 %	8 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.7	97 %	10	9.9	99 %	3 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.2	92 %	10	9.8	98 %	7 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	11	112 %	10	12	116 %	3 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.5	95 %	10	9.8	98 %	4 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.2	92 %	10	9.9	99 %	7 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	104 %	10	11	108 %	4 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	19	93 %	20	15	75 %	21 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	12	118 %	10	12	121 %	3 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	19	94 %	20	19	96 %	2 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	103 %	10	10	105 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	8.4	84 %	10	9.1	91 %	7 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	8.8	88 %	10	9.4	94 %	6 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	8.1	81 %	10	8.7	87 %	8 %	70 - 130 %	25%
71-43-2	Benzene	10	9.1	91 %	10	9.4	94 %	3 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.7	97 %	10	10	104 %	7 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	104 %	10	10	103 %	0 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	109 %	10	11	110 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	108 %	10	11	109 %	1 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	190	96 %	200	170	83 %	14 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	11	109 %	10	11	109 %	1 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	22	108 %	20	22	109 %	1 %	70 - 130 %	25%
108-88-3	Toluene	10	10	103 %	10	11	108 %	5 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.6	96 %	10	9.8	98 %	1 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.3	93 %	10	10	101 %	8 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	10	102 %	10	10	103 %	1 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	18	90 %	20	19	94 %	4 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	109 %	10	11	107 %	1 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	108 %	10	11	109 %	1 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.4	94 %	10	9.8	98 %	4 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	104 %	10	11	108 %	4 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.5	95 %	10	10	103 %	7 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	19	95 %	20	20	101 %	6 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	9.8	98 %	10	10	102 %	4 %	70 - 130 %	25%
100-42-5	Styrene	10	10	102 %	10	11	107 %	4 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	109 %	10	11	111 %	1 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	8.8	88 %	10	9.4	94 %	7 %	70 - 130 %	25%

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2604-WL	Analyzed:	08-23-07 21:03	Analyzed:	08-23-07 21:34
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.7	97 %	10	10	100 %	3 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	9.4	94 %	10	9.2	92 %	2 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	11	113 %	10	11	112 %	1 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	8.9	89 %	10	9.5	95 %	7 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.1	91 %	10	9.6	96 %	6 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	9.2	92 %	10	9.7	97 %	5 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.3	93 %	10	9.5	95 %	3 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9	90 %	10	9.5	95 %	6 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98 %	10	10	101 %	3 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	8.6	86 %	10	9.2	92 %	7 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.1	91 %	10	9.6	96 %	6 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.2	92 %	10	9.4	94 %	2 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.8	98 %	10	9.9	99 %	1 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	8.8	88 %	10	9.3	93 %	5 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	11	106 %	10	11	109 %	2 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	106 %	10	11	108 %	2 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.3	93 %	10	10	100 %	7 %	70 - 130 %	25%
91-20-3	Naphthalene	10	10	102 %	10	10	101 %	1 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	106 %	10	11	107 %	1 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	200	102 %	200	200	98 %	3 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9	90 %	10	9.2	92 %	2 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.5	95 %	10	9.6	96 %	1 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	9.6	96 %	10	9.6	96 %	1 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	106 %	10	11	106 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	108 %	10	11	112 %	70 - 130 %
Toluene-d_8	10	11	108 %	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996)
Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM7-2604-WB
Matrix: Aqueous

Instrument ID: MS-7 Agilent 6890
Analyzed: 08-23-07 22:13
Analyst: CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2604-WB	Analyzed:	08-23-07 22:13
Matrix:	Aqueous	Analyst:	CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	109 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	112 %	70 - 130 %
Toluene-d_8	10	11	107 %	70 - 130 %
4-Bromofluorobenzene	10	9.4	94 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2605-WL	Analyzed:	08-24-07 09:05	Analyzed:	08-24-07 09:36
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	9	90 %	10	9.8	98 %	8 %	70 - 130 %	25%
74-87-3	Chloromethane	10	8.6	86 %	10	9.9	99 %	14 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	10	100 %	10	12	116 %	14 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.6	96 %	10	11	110 %	14 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.2	92 %	10	10	102 %	10 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	11	111 %	10	12	122 %	9 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	83 %	20	18	89 %	7 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	11	108 %	10	12	116 %	7 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	21	104 %	20	23	116 %	10 %	70 - 130 %	25%
67-64-1	Acetone	20	16	81 %	20	20	102 %	23 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	19	93 %	20	20	102 %	10 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.9	99 %	10	11	105 %	6 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	11	107 %	10	11	113 %	6 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	10	105 %	10	11	112 %	7 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	10	100 %	10	11	109 %	9 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	11	110 %	10	12	117 %	6 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	11	108 %	10	12	117 %	8 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	16	81 %	20	18	92 %	13 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	112 %	10	12	125 %	11 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	17	86 %	20	18	92 %	8 %	70 - 130 %	25%
67-66-3	Chloroform	10	11	107 %	10	11	115 %	7 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	10	102 %	10	12	121 %	17 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	11	108 %	10	12	123 %	13 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.7	97 %	10	12	115 %	17 %	70 - 130 %	25%
71-43-2	Benzene	10	9.7	97 %	10	11	105 %	8 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.5	95 %	10	11	113 %	17 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	11	112 %	10	12	119 %	6 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	100 %	10	11	111 %	10 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	10	103 %	10	11	110 %	7 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	108 %	10	12	117 %	9 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	150	76 %	200	140	71 %	7 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	11	106 %	10	12	115 %	9 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	19	96 %	20	21	105 %	9 %	70 - 130 %	25%
108-88-3	Toluene	10	11	111 %	10	12	119 %	7 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.1	91 %	10	10	100 %	10 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.4	94 %	10	10	104 %	10 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	11	108 %	10	12	122 %	12 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	9.7	97 %	10	11	107 %	10 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	16	82 %	20	18	91 %	9 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	10	105 %	10	12	116 %	10 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	10	103 %	10	11	112 %	8 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.9	99 %	10	11	108 %	8 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	11	107 %	10	12	119 %	10 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	11	106 %	10	12	117 %	9 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	21	105 %	20	23	115 %	9 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	105 %	10	12	115 %	10 %	70 - 130 %	25%
100-42-5	Styrene	10	11	106 %	10	12	118 %	11 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	107 %	10	11	114 %	7 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	9.8	98 %	10	10	105 %	7 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2605-WL	Analyzed:	08-24-07 09:05	Analyzed:	08-24-07 09:36
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.7	97 %	10	10	105 %	8 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	8.7	87 %	10	9.1	91 %	4 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	10	104 %	10	11	110 %	6 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	9.8	98 %	10	11	106 %	7 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.8	98 %	10	10	105 %	7 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	100 %	10	11	108 %	8 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.6	96 %	10	10	104 %	8 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	10	101 %	10	11	109 %	8 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	10	103 %	10	11	111 %	7 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	9.9	99 %	10	11	107 %	8 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.5	95 %	10	10	104 %	9 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	10	103 %	10	11	111 %	7 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.3	93 %	10	10	101 %	8 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.8	98 %	10	10	103 %	5 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	10	100 %	10	11	107 %	7 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	10	105 %	10	11	111 %	6 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	107 %	10	11	113 %	6 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	11	111 %	10	12	121 %	9 %	70 - 130 %	25%
91-20-3	Naphthalene	10	9.2	92 %	10	10	101 %	9 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	10	103 %	10	11	112 %	9 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	180	91 %	200	190	93 %	3 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.8	88 %	10	9.4	94 %	6 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.1	91 %	10	9.7	97 %	6 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	9	90 %	10	9.6	96 %	7 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	107 %	10	11	105 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	106 %	10	11	109 %	70 - 130 %
Toluene-d_8	10	11	106 %	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM7-2605-WB
Matrix: Aqueous

Instrument ID: MS-7 Agilent 6890
Analyzed: 08-24-07 10:10
Analyst: LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM7-2605-WB
Matrix: Aqueous

Instrument ID: MS-7 Agilent 6890
Analyzed: 08-24-07 10:10
Analyst: LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	108 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	70 - 130 %
Toluene-d_8	10	11	105 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475

August 27, 2007

Mr. Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-005**
Lab ID: **109877**
Received: **08-13-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/elm
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name: General Chemical
Project Number: 04-E-005
Scheduled Due Date: 08-27-07

Laboratory Number: 109877

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 08-13-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
109877-1	BIO-3	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109877-2	Carbon 2	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109877-3	RW-1	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109877-4	RW-2	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109877-5	RW-3	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109877-6	RW-4	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109877-7	BIO-2	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates
109877-8	BIO-1	Aqueous	08-10-07	EPA 8260B Volatile Organics with Oxygenates

Notes:

1. Project 109877 was received at a temperature of 2.3 C.

Results will be mailed to:

Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please send email to clientservices@groundwateranalytical.com or call 508-759-4441 and ask to speak to a Project Manager.

Your project is scheduled for completion on 08-27-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact a Project Manager to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: General Chemical/04-E-005
Client: WEB Engineering
Lab ID: 109877

Delivery: GWA Courier
Airbill: n/a
Lab Receipt: 08-13-07

Temperature: 2.3'C
Chain of Custody: Present
Custody Seal(s): n/a

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109877-1	BIO-3		Aqueous	8/10/07 15:24	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927830	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927819	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927818	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109877-2	Carbon 2		Aqueous	8/10/07 15:27	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927821	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927820	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927817	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109877-3	RW-1		Aqueous	8/10/07 15:36	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927829	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927828	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927823	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109877-4	RW-2		Aqueous	8/10/07 15:39	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927826	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927825	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927824	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109877-5	RW-3		Aqueous	8/10/07 15:43	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927816	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927815	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927814	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109877-6	RW-4		Aqueous	8/10/07 15:49	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927827	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927813	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927812	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
109877-7	BIO-2		Aqueous	8/10/07 15:52	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C927810	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927803	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	
C927802	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a	

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**General Chemical/04-E-005**	Delivery:	**GWA Courier**	Temperature:	**2.3'C**
Client:	**WEB Engineering**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**109877**	Lab Receipt:	**08-13-07**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
109877-8	BIO-1		Aqueous	8/10/07 15:58	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C927801	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a		
C927800	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a		
C927799	40 mL VOA Vial	Proline	BX27075	HCL	R-5142D	06-08-07	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project:	General Chemical/04-E-005	Lab ID:	109877
Client:	WEB Engineering	Received:	08-13-07 19:00

MA DEP Compendium of Analytical Methods

Project Location: n/a MA DEP RTN: n/a

This Form provides certifications for the following data set:

EPA 8260B: 109877-1,-2,-3,-4,-5,-6,-7,-8

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020A ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S - SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	Yes
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Operations Manager

Printed Name: Eric H. Jensen Date: 08-27-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-3	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-01	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:24	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 04:26	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	1500		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	BRL		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	27000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	21000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	12000		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	10000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-3	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-01	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:24	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 04:26	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	107 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	70 - 130 %
Toluene-d_8	10	10	104 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	Carbon 2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-02	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:27	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 04:58	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	2100		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	BRL		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	33000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	23000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	2900		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	BRL		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	Carbon 2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-02	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:27	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 04:58	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	110 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	108 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-1	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-03	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:36	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 05:31	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1100		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	320		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	23000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	10000		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	4800		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	3600		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-1	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-03	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:36	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 05:31	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*- Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	109 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.6	96 %	70 - 130 %
Toluene-d_8	10	11	109 %	70 - 130 %
4-Bromofluorobenzene	10	9.4	94 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-04	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:39	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 06:03	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	1200		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	BRL		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	22000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	12000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	5300		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	6300		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-04	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:39	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 06:03	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	107 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	101 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-05	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:43	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 06:31	Dilution Factor:	2000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1000
74-87-3	Chloromethane	BRL		ug/L	1000
75-01-4	Vinyl Chloride	BRL		ug/L	1000
74-83-9	Bromomethane	BRL		ug/L	1000
75-00-3	Chloroethane	BRL		ug/L	1000
75-69-4	Trichlorofluoromethane	BRL		ug/L	1000
60-29-7	Diethyl Ether	BRL		ug/L	4000
75-35-4	1,1-Dichloroethene	**4700**		ug/L	1000
76-13-1	1,1,2-Trichlorotrifluoroethane	**11000**		ug/L	10000
67-64-1	Acetone	BRL		ug/L	20000
75-15-0	Carbon Disulfide	BRL		ug/L	10000
75-09-2	Methylene Chloride	**6900**		ug/L	5000
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	1000
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	1000
75-34-3	1,1-Dichloroethane	BRL		ug/L	1000
594-20-7	2,2-Dichloropropane	BRL		ug/L	1000
156-59-2	*cis*-1,2-Dichloroethene	**55000**		ug/L	1000
78-93-3	2-Butanone (MEK)	BRL		ug/L	10000
74-97-5	Bromochloromethane	BRL		ug/L	1000
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10000
67-66-3	Chloroform	BRL		ug/L	1000
71-55-6	1,1,1-Trichloroethane	**81000**		ug/L	1000
56-23-5	Carbon Tetrachloride	BRL		ug/L	1000
563-58-6	1,1-Dichloropropene	BRL		ug/L	1000
71-43-2	Benzene	BRL		ug/L	1000
107-06-2	1,2-Dichloroethane	BRL		ug/L	1000
79-01-6	Trichloroethene	**18000**		ug/L	1000
78-87-5	1,2-Dichloropropane	BRL		ug/L	1000
74-95-3	Dibromomethane	BRL		ug/L	1000
75-27-4	Bromodichloromethane	BRL		ug/L	1000
123-91-1	1,4-Dioxane	BRL		ug/L	1000000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	1000
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10000
108-88-3	Toluene	BRL		ug/L	1000
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	1000
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1000
127-18-4	Tetrachloroethene	**29000**		ug/L	1000
142-28-9	1,3-Dichloropropane	BRL		ug/L	1000
591-78-6	2-Hexanone	BRL		ug/L	10000
124-48-1	Dibromochloromethane	BRL		ug/L	1000
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1000
108-90-7	Chlorobenzene	BRL		ug/L	1000
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1000
100-41-4	Ethylbenzene	BRL		ug/L	1000
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	1000
95-47-6	*ortho*-Xylene	BRL		ug/L	1000

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-05	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:43	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 06:31	Dilution Factor:	2000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1000
75-25-2	Bromoform	BRL		ug/L	1000
98-82-8	Isopropylbenzene	BRL		ug/L	1000
108-86-1	Bromobenzene	BRL		ug/L	1000
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1000
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1000
103-65-1	*n*-Propylbenzene	BRL		ug/L	1000
95-49-8	2-Chlorotoluene	BRL		ug/L	1000
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1000
106-43-4	4-Chlorotoluene	BRL		ug/L	1000
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1000
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1000
135-98-8	*sec*-Butylbenzene	BRL		ug/L	1000
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1000
99-87-6	4-Isopropyltoluene	BRL		ug/L	1000
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1000
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1000
104-51-8	*n*-Butylbenzene	BRL		ug/L	1000
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1000
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1000
87-68-3	Hexachlorobutadiene	BRL		ug/L	1000
91-20-3	Naphthalene	BRL		ug/L	1000
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1000
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1000
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1000
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	1000

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	109 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	106 %	70 - 130 %
Toluene-d_8	10	10	105 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-4	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-06	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:49	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 07:00	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	930		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	260		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	23000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	8400		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	21000		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	11000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-4	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-06	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:49	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 07:00	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	107 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	108 %	70 - 130 %
Toluene-d_8	10	10	105 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-07	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:52	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 07:31	Dilution Factor:	50
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	25
74-87-3	Chloromethane	BRL		ug/L	25
75-01-4	Vinyl Chloride	72		ug/L	25
74-83-9	Bromomethane	BRL		ug/L	25
75-00-3	Chloroethane	BRL		ug/L	25
75-69-4	Trichlorofluoromethane	BRL		ug/L	25
60-29-7	Diethyl Ether	BRL		ug/L	100
75-35-4	1,1-Dichloroethene	1500		ug/L	25
76-13-1	1,1,2-Trichlorotrifluoroethane	2500		ug/L	250
67-64-1	Acetone	BRL		ug/L	500
75-15-0	Carbon Disulfide	BRL		ug/L	250
75-09-2	Methylene Chloride	2200		ug/L	130
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	25
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	25
75-34-3	1,1-Dichloroethane	360		ug/L	25
594-20-7	2,2-Dichloropropane	BRL		ug/L	25
156-59-2	*cis*-1,2-Dichloroethene	30000	e	ug/L	25
78-93-3	2-Butanone (MEK)	BRL		ug/L	250
74-97-5	Bromochloromethane	BRL		ug/L	25
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	250
67-66-3	Chloroform	BRL		ug/L	25
71-55-6	1,1,1-Trichloroethane	24000	e	ug/L	25
56-23-5	Carbon Tetrachloride	BRL		ug/L	25
563-58-6	1,1-Dichloropropene	BRL		ug/L	25
71-43-2	Benzene	BRL		ug/L	25
107-06-2	1,2-Dichloroethane	BRL		ug/L	25
79-01-6	Trichloroethene	13000	e	ug/L	25
78-87-5	1,2-Dichloropropane	BRL		ug/L	25
74-95-3	Dibromomethane	BRL		ug/L	25
75-27-4	Bromodichloromethane	BRL		ug/L	25
123-91-1	1,4-Dioxane	BRL		ug/L	25000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	25
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	250
108-88-3	Toluene	120		ug/L	25
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	25
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	25
127-18-4	Tetrachloroethene	14000	e	ug/L	25
142-28-9	1,3-Dichloropropane	BRL		ug/L	25
591-78-6	2-Hexanone	BRL		ug/L	250
124-48-1	Dibromochloromethane	BRL		ug/L	25
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	25
108-90-7	Chlorobenzene	BRL		ug/L	25
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	25
100-41-4	Ethylbenzene	37		ug/L	25
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	58		ug/L	25
95-47-6	*ortho*-Xylene	50		ug/L	25

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-07	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:52	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 07:31	Dilution Factor:	50
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	25
75-25-2	Bromoform	BRL		ug/L	25
98-82-8	Isopropylbenzene	BRL		ug/L	25
108-86-1	Bromobenzene	BRL		ug/L	25
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	25
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	25
103-65-1	*n*-Propylbenzene	BRL		ug/L	25
95-49-8	2-Chlorotoluene	BRL		ug/L	25
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	25
106-43-4	4-Chlorotoluene	BRL		ug/L	25
98-06-6	*tert*-Butylbenzene	BRL		ug/L	25
95-63-6	1,2,4-Trimethylbenzene	59		ug/L	25
135-98-8	*sec*-Butylbenzene	BRL		ug/L	25
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	25
99-87-6	4-Isopropyltoluene	BRL		ug/L	25
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	25
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	25
104-51-8	*n*-Butylbenzene	BRL		ug/L	25
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	25
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	25
87-68-3	Hexachlorobutadiene	BRL		ug/L	25
91-20-3	Naphthalene	34		ug/L	25
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	25
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	1000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	25
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	25
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	25

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	106 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	70 - 130 %
Toluene-d_8	10	11	105 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-07RA1	QC Batch ID:	VM7-2605-W
Sampled:	08-10-07 15:52	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 15:53	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	1600		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	2600		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	27000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	25000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	12000		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	11000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-07RA1	QC Batch ID:	VM7-2605-W
Sampled:	08-10-07 15:52	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 15:53	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	sec-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	110 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	107 %	70 - 130 %
Toluene-d_8	10	11	107 %	70 - 130 %
4-Bromofluorobenzene	10	9	90 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996)
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-1	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-08	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:58	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 08:03	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1600		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	3400		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	2200		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	370		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	27000	e	ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	21000		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	11000		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	10000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-1	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-08	QC Batch ID:	VM7-2604-W
Sampled:	08-10-07 15:58	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 08:03	Dilution Factor:	500
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	105 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9.6	96 %	70 - 130 %
Toluene-d_8	10	10	105 %	70 - 130 %
4-Bromofluorobenzene	10	8.9	89 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-1	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-08RA1	QC Batch ID:	VM7-2605-W
Sampled:	08-10-07 15:58	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 16:26	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	1600		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	2600		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	26000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	21000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	11000		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	11000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-1	Matrix:	Aqueous
Project:	General Chemical/04-E-005	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	109877-08RA1	QC Batch ID:	VM7-2605-W
Sampled:	08-10-07 15:58	Instrument ID:	MS-7 Agilent 6890
Received:	08-13-07 19:00	Sample Volume:	25 mL
Analyzed:	08-24-07 16:26	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	108 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	70 - 130 %
Toluene-d_8	10	11	106 %	70 - 130 %
4-Bromofluorobenzene	10	8.7	87 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	General Chemical/04-E-005	Lab ID:	109877
Client:	WEB Engineering	Received:	08-13-07 19:00

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Sample 109877-07 and -08. Reported results for selected analyte exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.
2. EPA 8260B Note: Samples 109877-01 through -08. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

GROUNDWATER ANALYTICAL

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Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
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CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: General Chemical	Firm: WBG Engineering
Project Number: 04-E-005	Address: 104 Longwater Drive
Sampler Name: Bruce Obosky	City / State / Zip: Norwell MA 02061
Project Manager: Jon Alsop	Telephone: 781-878-7766

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- [X] STANDARD (10 Business Days)
- [ ] PRIORITY (5 Business Days)
- [ ] RUSH (RAN-) (Rush requires Rush Authorization Number)
- [ ] Please Email to:
- [X] Please FAX to: 781-878-7766

BILLING

- [ ] Purchase Order No.:
- [ ] Third Party Billing:
- [ ] GWA Quote:

ANALYSIS REQUEST

Bottle Order	Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
1	8/10/07	3:44	BIO-3	GW	C	6VOA	HCl		
2		3:37	Carbon 2	GW	C	6VOA	HCl		
3		3:36	RW-1	GW	C	6VOA	HCl		
4		3:35	RW-2	GW	C	6VOA	HCl		
5		3:43	RW-3	GW	C	6VOA	HCl		
6		3:49	RW-4	GW	C	6VOA	HCl		
7		3:52	BIO-2	GW	C	6VOA	HCl		
8		3:58	BIO-1	GW	C	6VOA	HCl		

REMARKS / SPECIAL INSTRUCTIONS

- [ ] YES [ ] NO MCP Data Certification required.
- [ ] YES [ ] NO MCP Drinking Water Sample included. (Volatile analyses require duplicate collection and Trip Blanks).
- [ ] Analyze Duplicates and Trips Blanks only if positive results.
- [ ] YES [ ] NO CT RCP Data Certification required.

Signature:

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
[ ] CT	[X] MCP GW-1/S-1	[ ] PWS Form
[ ] ME	[ ] MCP GW-2/S-2	[ ] MWRA
[X] MA	[ ] NY STARS	[ ]
[ ] NH	[ ] Drinking Water	
[ ] NY	[ ] Wastewater	
[ ] RI	[ ] Waste Disposal	
[ ] VT	[ ] Dredge Material	
[ ]	[ ]	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless preantaged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
[ ] Sample Duplicate	[ ] Please use sample:
[ ] Matrix Spike	
[ ] Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time		Date	Time	
Relinquished by Sampler: Bruce Obosky	8-10-07	EOD	Received by: Alan Maddigan	8/13/07	1035	Receipt Temperature: 2.3°C
Relinquished by: Alan Maddigan	8/13/07	1100	Received by:			Container Count: 24
Relinquished by:	Date	Time	Received by Laboratory:			Shipping Airbill Number:

Method of Shipment: [X] GWA Courier [ ] Express Mail [ ] Federal Express [ ] UPS [ ] Hand [ ]

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2604-WL	Analyzed:	08-23-07 21:03	Analyzed:	08-23-07 21:34
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	7	70 %	10	8.1	81 %	14 %	70 - 130 %	25%
74-87-3	Chloromethane	10	7.7	77 %	10	8.7	87 %	12 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	8.3	83 %	10	9.4	94 %	12 %	70 - 130 %	25%
74-83-9	Bromomethane	10	8.8	88 %	10	9.6	96 %	8 %	70 - 130 %	25%
75-00-3	Chloroethane	10	8.2	82 %	10	8.9	89 %	8 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	8.9	89 %	10	9.8	98 %	10 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	87 %	20	18	92 %	5 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	8.5	85 %	10	9.5	95 %	11 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	16	81 %	20	18	89 %	10 %	70 - 130 %	25%
67-64-1	Acetone	20	20	98 %	20	19	97 %	1 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	16	78 %	20	17	85 %	8 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.7	97 %	10	9.9	99 %	3 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.2	92 %	10	9.8	98 %	7 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	11	112 %	10	12	116 %	3 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.5	95 %	10	9.8	98 %	4 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.2	92 %	10	9.9	99 %	7 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	104 %	10	11	108 %	4 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	19	93 %	20	15	75 %	21 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	12	118 %	10	12	121 %	3 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	19	94 %	20	19	96 %	2 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	103 %	10	10	105 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	8.4	84 %	10	9.1	91 %	7 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	8.8	88 %	10	9.4	94 %	6 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	8.1	81 %	10	8.7	87 %	8 %	70 - 130 %	25%
71-43-2	Benzene	10	9.1	91 %	10	9.4	94 %	3 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.7	97 %	10	10	104 %	7 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	104 %	10	10	103 %	0 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	109 %	10	11	110 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	108 %	10	11	109 %	1 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	190	96 %	200	170	83 %	14 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	11	109 %	10	11	109 %	1 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	22	108 %	20	22	109 %	1 %	70 - 130 %	25%
108-88-3	Toluene	10	10	103 %	10	11	108 %	5 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.6	96 %	10	9.8	98 %	1 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.3	93 %	10	10	101 %	8 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	10	102 %	10	10	103 %	1 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	18	90 %	20	19	94 %	4 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	109 %	10	11	107 %	1 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	108 %	10	11	109 %	1 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.4	94 %	10	9.8	98 %	4 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	104 %	10	11	108 %	4 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.5	95 %	10	10	103 %	7 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	19	95 %	20	20	101 %	6 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	9.8	98 %	10	10	102 %	4 %	70 - 130 %	25%
100-42-5	Styrene	10	10	102 %	10	11	107 %	4 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	109 %	10	11	111 %	1 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	8.8	88 %	10	9.4	94 %	7 %	70 - 130 %	25%

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2604-WL	Analyzed:	08-23-07 21:03	Analyzed:	08-23-07 21:34
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.7	97 %	10	10	100 %	3 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	9.4	94 %	10	9.2	92 %	2 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	11	113 %	10	11	112 %	1 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	8.9	89 %	10	9.5	95 %	7 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.1	91 %	10	9.6	96 %	6 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	9.2	92 %	10	9.7	97 %	5 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.3	93 %	10	9.5	95 %	3 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9	90 %	10	9.5	95 %	6 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98 %	10	10	101 %	3 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	8.6	86 %	10	9.2	92 %	7 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.1	91 %	10	9.6	96 %	6 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.2	92 %	10	9.4	94 %	2 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.8	98 %	10	9.9	99 %	1 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	8.8	88 %	10	9.3	93 %	5 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	11	106 %	10	11	109 %	2 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	106 %	10	11	108 %	2 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.3	93 %	10	10	100 %	7 %	70 - 130 %	25%
91-20-3	Naphthalene	10	10	102 %	10	10	101 %	1 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	106 %	10	11	107 %	1 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	200	102 %	200	200	98 %	3 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9	90 %	10	9.2	92 %	2 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.5	95 %	10	9.6	96 %	1 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	9.6	96 %	10	9.6	96 %	1 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	11	106 %	10	11	106 %		70 - 130 %
1,2-Dichloroethane-d_4	10	11	108 %	10	11	112 %		70 - 130 %
Toluene-d_8	10	11	108 %	10	11	106 %		70 - 130 %
4-Bromofluorobenzene	10	9	90 %	10	9.1	91 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM7-2604-WB
Matrix: Aqueous

Instrument ID: MS-7 Agilent 6890
Analyzed: 08-23-07 22:13
Analyst: CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2604-WB	Analyzed:	08-23-07 22:13
Matrix:	Aqueous	Analyst:	CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	sec-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	109 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	112 %	70 - 130 %
Toluene-d_8	10	11	107 %	70 - 130 %
4-Bromofluorobenzene	10	9.4	94 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL . Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID	MS-7 Agilent 6890	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2605-WL	Analyzed:	08-24-07 09:05	Analyzed:	08-24-07 09:36
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	9	90 %	10	9.8	98 %	8 %	70 - 130 %	25%
74-87-3	Chloromethane	10	8.6	86 %	10	9.9	99 %	14 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	10	100 %	10	12	116 %	14 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.6	96 %	10	11	110 %	14 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.2	92 %	10	10	102 %	10 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	11	111 %	10	12	122 %	9 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	83 %	20	18	89 %	7 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	11	108 %	10	12	116 %	7 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	21	104 %	20	23	116 %	10 %	70 - 130 %	25%
67-64-1	Acetone	20	16	81 %	20	20	102 %	23 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	19	93 %	20	20	102 %	10 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.9	99 %	10	11	105 %	6 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	11	107 %	10	11	113 %	6 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	10	105 %	10	11	112 %	7 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	10	100 %	10	11	109 %	9 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	11	110 %	10	12	117 %	6 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	11	108 %	10	12	117 %	8 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	16	81 %	20	18	92 %	13 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	112 %	10	12	123 %	11 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	17	86 %	20	18	92 %	8 %	70 - 130 %	25%
67-66-3	Chloroform	10	11	107 %	10	11	115 %	7 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	10	102 %	10	12	121 %	17 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	11	108 %	10	12	123 %	13 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.7	97 %	10	12	115 %	17 %	70 - 130 %	25%
71-43-2	Benzene	10	9.7	97 %	10	11	105 %	8 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.5	95 %	10	11	113 %	17 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	11	112 %	10	12	119 %	6 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	100 %	10	11	111 %	10 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	10	103 %	10	11	110 %	7 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	108 %	10	12	117 %	9 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	150	76 %	200	140	71 %	7 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	11	106 %	10	12	115 %	9 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	19	96 %	20	21	105 %	9 %	70 - 130 %	25%
108-88-3	Toluene	10	11	111 %	10	12	119 %	7 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.1	91 %	10	10	100 %	10 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.4	94 %	10	10	104 %	10 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	11	108 %	10	12	122 %	12 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	9.7	97 %	10	11	107 %	10 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	16	82 %	20	18	91 %	9 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	10	105 %	10	12	116 %	10 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	10	103 %	10	11	112 %	8 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.9	99 %	10	11	108 %	8 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	11	107 %	10	12	119 %	10 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	11	106 %	10	12	117 %	9 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	21	105 %	20	23	115 %	9 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	105 %	10	12	115 %	10 %	70 - 130 %	25%
100-42-5	Styrene	10	11	106 %	10	12	118 %	11 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	107 %	10	11	114 %	7 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	9.8	98 %	10	10	105 %	7 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2605-WL	Analyzed:	08-24-07 09:05	Analyzed:	08-24-07 09:36
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	9.7	97 %	10	10	105 %	8 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	8.7	87 %	10	9.1	91 %	4 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	10	104 %	10	11	110 %	6 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	9.8	98 %	10	11	106 %	7 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.8	98 %	10	10	105 %	7 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	100 %	10	11	108 %	8 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.6	96 %	10	10	104 %	8 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	10	101 %	10	11	109 %	8 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	10	103 %	10	11	111 %	7 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	9.9	99 %	10	11	107 %	8 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.5	95 %	10	10	104 %	9 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	10	103 %	10	11	111 %	7 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.3	93 %	10	10	101 %	8 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.8	98 %	10	10	103 %	5 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	10	100 %	10	11	107 %	7 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	10	105 %	10	11	111 %	6 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	107 %	10	11	113 %	6 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	11	111 %	10	12	121 %	9 %	70 - 130 %	25%
91-20-3	Naphthalene	10	9.2	92 %	10	10	101 %	9 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	10	103 %	10	11	112 %	9 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	180	91 %	200	190	93 %	3 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.8	88 %	10	9.4	94 %	6 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.1	91 %	10	9.7	97 %	6 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	9	90 %	10	9.6	96 %	7 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	11	107 %	10	11	105 %		70 - 130 %
1,2-Dichloroethane-d_4	10	11	106 %	10	11	109 %		70 - 130 %
Toluene-d_8	10	11	106 %	10	11	106 %		70 - 130 %
4-Bromofluorobenzene	10	9	90 %	10	9	90 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM7-2605-WB
Matrix: Aqueous

Instrument ID: MS-7 Agilent 6890
Analyzed: 08-24-07 10:10
Analyst: LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 Agilent 6890
QC Batch ID:	VM7-2605-WB	Analyzed:	08-24-07 10:10
Matrix:	Aqueous	Analyst:	LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	108 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	70 - 130 %
Toluene-d_8	10	11	105 %	70 - 130 %
4-Bromofluorobenzene	10	9.2	92 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental_Lab/out_state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt_list_aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph_lab/documents/certified_labs.pdf

GROUNDWATER ANALYTICAL

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FAX (508) 759-4475
www.groundwateranalytical.com

November 26, 2007

Mr. Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-037**
Lab ID: **112508**
Received: **11-08-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/ajh
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name: General Chemical
Project Number: 04-E-037
Scheduled Due Date: 11-26-07

Laboratory Number: 112508

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 11-08-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
112508-1	RW-1	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112508-2	RW-2	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112508-3	RW-3	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112508-4	BIO-3	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112508-5	Carbon-1	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112508-6	Carbon-2	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112508-7	BIO-2	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates
112508-8	BIO-1	Aqueous	11-07-07	EPA 8260B Volatile Organics with Oxygenates

Notes:

1. Project 112508 was received at a temperature of 5.3 C.

Results will be mailed to:

Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please send email to clientservices@groundwateranalytical.com or call 508-759-4441 and ask to speak to a Project Manager.

Your project is scheduled for completion on 11-26-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact a Project Manager to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical/04-E-037**
Client: **WEB Engineering**
Lab ID: **112508**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **11-08-07**

Temperature: **5.3°C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112508-1	RW-1		Aqueous	11/7/07 14:47	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949083	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949073	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949063	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112508-2	RW-2		Aqueous	11/7/07 14:37	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949093	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949092	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949082	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112508-3	RW-3		Aqueous	11/7/07 14:42	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949053	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949043	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949033	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112508-4	BIO-3		Aqueous	11/7/07 14:50	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949054	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949044	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949034	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112508-5	Carbon-1		Aqueous	11/7/07 14:55	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949055	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949045	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949035	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112508-6	Carbon-2		Aqueous	11/7/07 14:59	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949084	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949074	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949064	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112508-7	BIO-2		Aqueous	11/7/07 15:03	EPA 8260B Volatile Organics with Oxygenates			
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	
C949038	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949037	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	
C949036	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07	

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	General Chemical/04-E-037	Delivery:	GWA Courier	Temperature:	5.3'C
Client:	WEB Engineering	Airbill:	n/a	Chain of Custody:	Present
Lab ID:	112508	Lab Receipt:	11-08-07	Custody Seal(s):	n/a

Lab ID	Field ID		Matrix	Sampled	Method				Notes
112508-8	BIO-1		Aqueous	11/7/07 15:09	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C949094	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07		
C949075	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07		
C949065	40 mL VOA Vial	Proline	BX27402	HCL	R-5235B	07-16-07	08-13-07		

GROUNDWATER ANALYTICAL

Data Certification

Project: **General Chemical/04-E-037** Lab ID: **112508**
Client: **WEB Engineering** Received: **11-08-07 14:45**

MA DEP Compendium of Analytical Methods

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set.

EPA 8260B: 112508-1,-2,-3,-4,-5,-6,-7,-8

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020A ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S - SW-846 Methods 7000 Series: List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data*?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	Yes
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Operations Manager

Printed Name: Eric H. Jensen Date: 11-26-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-01	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 14:47	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 09:05	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2,000
75-35-4	1,1-Dichloroethene	2,000		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5,000
67-64-1	Acetone	BRL		ug/L	10,000
75-15-0	Carbon Disulfide	BRL		ug/L	5,000
75-09-2	Methylene Chloride	BRL		ug/L	2,500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	27,000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5,000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5,000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	33,000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	8,300		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5,000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	16,000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5,000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-01	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 14:47	Instrument ID	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 09:05	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	94 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	102 %	70 - 130 %
Toluene-d_8	10	9	95 %	70 - 130 %
4-Bromofluorobenzene	10	10	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-02	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 14:37	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 10:31	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2,000
75-35-4	1,1-Dichloroethene	1,100		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5,000
67-64-1	Acetone	BRL		ug/L	10,000
75-15-0	Carbon Disulfide	BRL		ug/L	5,000
75-09-2	Methylene Chloride	BRL		ug/L	2,500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	23,000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5,000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5,000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	12,000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	4,100		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5,000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	11,000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5,000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-02	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 14:37	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 10:31	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	98 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	96 %	70 - 130 %
Toluene-d_8	10	10	96 %	70 - 130 %
4-Bromofluorobenzene	10	10	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-03	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 14:42	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 10:59	Dilution Factor:	2000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1,000
74-87-3	Chloromethane	BRL		ug/L	1,000
75-01-4	Vinyl Chloride	BRL		ug/L	1,000
74-83-9	Bromomethane	BRL		ug/L	1,000
75-00-3	Chloroethane	BRL		ug/L	1,000
75-69-4	Trichlorofluoromethane	BRL		ug/L	1,000
60-29-7	Diethyl Ether	BRL		ug/L	4,000
75-35-4	1,1-Dichloroethene	2,600		ug/L	1,000
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	10,000
67-64-1	Acetone	BRL		ug/L	20,000
75-15-0	Carbon Disulfide	BRL		ug/L	10,000
75-09-2	Methylene Chloride	BRL		ug/L	5,000
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	1,000
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	1,000
75-34-3	1,1-Dichloroethane	BRL		ug/L	1,000
594-20-7	2,2-Dichloropropane	BRL		ug/L	1,000
156-59-2	*cis*-1,2-Dichloroethene	36,000		ug/L	1,000
78-93-3	2-Butanone (MEK)	BRL		ug/L	10,000
74-97-5	Bromochloromethane	BRL		ug/L	1,000
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10,000
67-66-3	Chloroform	BRL		ug/L	1,000
71-55-6	1,1,1-Trichloroethane	55,000		ug/L	1,000
56-23-5	Carbon Tetrachloride	BRL		ug/L	1,000
563-58-6	1,1-Dichloropropene	BRL		ug/L	1,000
71-43-2	Benzene	BRL		ug/L	1,000
107-06-2	1,2-Dichloroethane	BRL		ug/L	1,000
79-01-6	Trichloroethene	12,000		ug/L	1,000
78-87-5	1,2-Dichloropropane	BRL		ug/L	1,000
74-95-3	Dibromomethane	BRL		ug/L	1,000
75-27-4	Bromodichloromethane	BRL		ug/L	1,000
123-91-1	1,4-Dioxane	BRL		ug/L	1,000,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	1,000
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10,000
108-88-3	Toluene	BRL		ug/L	1,000
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	1,000
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1,000
127-18-4	Tetrachloroethene	24,000		ug/L	1,000
142-28-9	1,3-Dichloropropane	BRL		ug/L	1,000
591-78-6	2-Hexanone	BRL		ug/L	10,000
124-48-1	Dibromochloromethane	BRL		ug/L	1,000
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1,000
108-90-7	Chlorobenzene	BRL		ug/L	1,000
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1,000
100-41-4	Ethylbenzene	BRL		ug/L	1,000
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	1,000
95-47-6	*ortho*-Xylene	BRL		ug/L	1,000

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-3	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-03	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 14:42	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 10:59	Dilution Factor:	2000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1,000
75-25-2	Bromoform	BRL		ug/L	1,000
98-82-8	Isopropylbenzene	BRL		ug/L	1,000
108-86-1	Bromobenzene	BRL		ug/L	1,000
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1,000
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1,000
103-65-1	*n*-Propylbenzene	BRL		ug/L	1,000
95-49-8	2-Chlorotoluene	BRL		ug/L	1,000
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1,000
106-43-4	4-Chlorotoluene	BRL		ug/L	1,000
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1,000
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1,000
135-98-8	*sec*-Butylbenzene	BRL		ug/L	1,000
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1,000
99-87-6	4-Isopropyltoluene	BRL		ug/L	1,000
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1,000
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1,000
104-51-8	*n*-Butylbenzene	BRL		ug/L	1,000
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1,000
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1,000
87-68-3	Hexachlorobutadiene	BRL		ug/L	1,000
91-20-3	Naphthalene	BRL		ug/L	1,000
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1,000
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1,000
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1,000
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	1,000

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	98 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	102 %	70 - 130 %
Toluene-d_8	10	10	99 %	70 - 130 %
4-Bromofluorobenzene	10	10	98 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**BIO-3**	Matrix:	Aqueous
Project:	**General Chemical/04-E-037**	Container:	40 mL VOA Vial
Client:	**WEB Engineering**	Preservation:	HCl/ Cool
Laboratory ID:	**112508-04**	QC Batch ID:	VM7-2704-W
Sampled:	**11-07-07 14:50**	Instrument ID:	MS-7 HP 6890
Received:	**11-08-07 14:45**	Sample Volume:	25 mL
Analyzed:	**11-21-07 11:28**	Dilution Factor:	**1000**
Analyst:	**LMC**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2,000
75-35-4	1,1-Dichloroethene	**1,800**		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5,000
67-64-1	Acetone	BRL		ug/L	10,000
75-15-0	Carbon Disulfide	BRL		ug/L	5,000
75-09-2	Methylene Chloride	**2,500**		ug/L	2,500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	**26,000**		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5,000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5,000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	**32,000**		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	**8,000**		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5,000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	**14,000**		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5,000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**BIO-3**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112508-04**	QC Batch ID:	**VM7-2704-W**
Sampled:	**11-07-07 14:50**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-21-07 11:28**	Dilution Factor:	**1000**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	sec-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	**97** %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	**103** %	70 - 130 %
Toluene-d_8	10	10	**97** %	70 - 130 %
4-Bromofluorobenzene	10	10	**98** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**Carbon-1**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112508-05**	QC Batch ID:	**VM7-2704-W**
Sampled:	**11-07-07 14:55**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-21-07 11:56**	Dilution Factor:	**1000**
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2,000
75-35-4	1,1-Dichloroethene	1,800		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5,000
67-64-1	Acetone	BRL		ug/L	10,000
75-15-0	Carbon Disulfide	BRL		ug/L	5,000
75-09-2	Methylene Chloride	BRL		ug/L	2,500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	26,000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5,000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5,000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	31,000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	7,600		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5,000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	13,000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5,000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**Carbon-1**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112508-05**	QC Batch ID:	**VM7-2704-W**
Sampled:	**11-07-07 14:55**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-21-07 11:56**	Dilution Factor:	**1000**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	99 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	104 %	70 - 130 %
Toluene-d_8	10	10	97 %	70 - 130 %
4-Bromofluorobenzene	10	10	99 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	Carbon-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-06	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 14:59	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 12:24	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2,000
75-35-4	1,1-Dichloroethene	1,400		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5,000
67-64-1	Acetone	BRL		ug/L	10,000
75-15-0	Carbon Disulfide	BRL		ug/L	5,000
75-09-2	Methylene Chloride	BRL		ug/L	2,500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	26,000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5,000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5,000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	29,000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	9,300		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5,000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	2,200		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5,000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	Carbon-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-06	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 14:59	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 12:24	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	100 %	70 - 130 %
1,2-Dichloroethane-d_4	10	9	95 %	70 - 130 %
Toluene-d_8	10	10	97 %	70 - 130 %
4-Bromofluorobenzene	10	10	99 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-07	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 15:03	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 12:53	Dilution Factor:	500
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1,000
75-35-4	1,1-Dichloroethene	1,900		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	4,400		ug/L	2,500
67-64-1	Acetone	BRL		ug/L	5,000
75-15-0	Carbon Disulfide	BRL		ug/L	2,500
75-09-2	Methylene Chloride	2,100		ug/L	1,300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	430		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	28,000	e	ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2,500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2,500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	37,000	e	ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	9,100		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2,500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	16,000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2,500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-07	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 15:03	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 12:53	Dilution Factor:	500
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	101 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	102 %	70 - 130 %
Toluene-d_8	10	10	99 %	70 - 130 %
4-Bromofluorobenzene	10	10	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**BIO-2**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112508-07RA1**	QC Batch ID:	**VM7-2705-W**
Sampled:	**11-07-07 15:03**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-21-07 22:29**	Dilution Factor:	**1000**
Analyst:	**CCT**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2,000
75-35-4	1,1-Dichloroethene	2,000		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5,000
67-64-1	Acetone	BRL		ug/L	10,000
75-15-0	Carbon Disulfide	BRL		ug/L	5,000
75-09-2	Methylene Chloride	2,800		ug/L	2,500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl tert-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	27,000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5,000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5,000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	33,000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	8,300		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500,000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5,000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	15,000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5,000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	BIO-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-07RA1	QC Batch ID:	VM7-2705-W
Sampled:	11-07-07 15:03	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 22:29	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	98 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	99 %	70 - 130 %
Toluene-d_8	10	10	96 %	70 - 130 %
4-Bromofluorobenzene	10	10	97 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996)
Sample preparation performed by EPA Method 5030B

Report Notations: BRL indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	BIO-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/ Cool
Laboratory ID:	112508-08	QC Batch ID:	VM7-2704-W
Sampled:	11-07-07 15:09	Instrument ID:	MS-7 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-21-07 13:22	Dilution Factor:	1000
Analyst:	LMG		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2,000
75-35-4	1,1-Dichloroethene	1,700		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5,000
67-64-1	Acetone	BRL		ug/L	10,000
75-15-0	Carbon Disulfide	BRL		ug/L	5,000
75-09-2	Methylene Chloride	BRL		ug/L	2,500
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*- 1,2-Dichloroethene	25,000		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5,000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5,000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	29,000		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	7,300		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5,000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	13,000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5,000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	500
95-47-6	*ortho*- Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**BIO-1**	Matrix:	**Aqueous**
Project:	**General Chemical/04-E-037**	Container:	**40 mL VOA Vial**
Client:	**WEB Engineering**	Preservation:	**HCl/ Cool**
Laboratory ID:	**112508-08**	QC Batch ID:	**VM7-2704-W**
Sampled:	**11-07-07 15:09**	Instrument ID:	**MS-7 HP 6890**
Received:	**11-08-07 14:45**	Sample Volume:	**25 mL**
Analyzed:	**11-21-07 13:22**	Dilution Factor:	**1000**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20,000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	96 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	99 %	70 - 130 %
Toluene-d_8	10	10	97 %	70 - 130 %
4-Bromofluorobenzene	10	10	99 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical/04-E-037**	Lab ID:	**112508**
Client:	**WEB Engineering**	Received:	**11-08-07 14:45**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Sample 112508-07. Reported results for selected analyte exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.
2. EPA 8260B Note: Samples 112508-01 through -08. Sample were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

GROUNDWATER TECHNOLOGY

Tel: (508) 756-3545 • Fax: (508) 756-4475

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: General Chemical	Firm: Clients
Project Number: 04-E-037	Address: 104 Longwater Drive
Sampler Name: Bruce Obodsky	City / State / Zip: Norwell, MA 02061
Project Manager: Jon Hisner	Telephone: 781-878-7766

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND TIME

- ☐ STANDARD (10 Business Days)
- ☐ PRIORITY (5 Business Days)*
- ☐ RUSH (1 Day)*
  (Pre-approval required)
- ☐ Please Email to: _____
- ☒ Please FAX to: 781-878-8007

BILLING

- ☐ Purchase Order No.: _____
- ☐ Third Party Billing: _____
- ☒ GWA Quote: 67-03-1107

ANALYSIS REQUEST

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservative(s)	Qual.	LABORATORY NUMBER (Lab Use Only)
11-7-07	2:45	RW-1	X		X	X		
	2:42	RW-3	X		X	X		
	2:55	RW-4	X		X	X		
	3:05	RW-2	X		X	X		

Analyses requested: Metals (Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Ag, Tl, V, Zn); Priority Pollutants (Vol. TPH; Ext. TPH; Pesticides; PCBs; Herbicides; Dioxins); Hot Waste (Flashpoint; Reactive Cyanide; Reactive Sulfide; Ignitability; Corrosivity); General Chemistry (Alkalinity; Chloride; Fluoride; Sulfate; Nitrate-N; Nitrite-N; Total Phosphorus; Ortho-P; Hardness; TDS; TSS; Color; Turbidity; Total Cyanide; Phenolics; Ammonia-N; Total Kjeldahl Nitrogen; BOD; COD; Oil & Grease; MBAS; Methanol); Other (Total Petroleum Hydrocarbons; Dissolved Oxygen; Salinity; Total Coliform; Fecal Coliform; SPLP Extraction; TCLP Extraction; Ignitability; Reactivity; Corrosivity; Percent Solids; Percent Moisture; Specific Gravity; Hold)

REMARKS / SPECIAL INSTRUCTIONS

- ☐ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Samples Inquired.
  (Volatile analyses require duplicate collection and Trip Blanks.)
- ☐ Analyze Duplicates and Trips Blanks only if positive results.
- ☐ YES ☐ NO CT RCP Data Certification required.

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ RCP GW-1/S-1	☐ PWS Form
☒ ME	☐ MCP GW-2/S-2	☐ MWRA
☐ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless predesignated. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
☐ Sample Duplicate	☐ Please use sample: _____
☐ Matrix Spike	
☐ Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time		
Relinquished by Sampler: Bruce Obodsky	11-7-07	6pm	Received by: [illegible] 1037	Receipt Temperature: 5.3 ☐ Yes ☐ Refrigerated 2-5°C (Recommended)
Relinquished by: [illegible]	11/8/07	1145	Received by: Tonia Alexander	Container Count: 24
Relinquished by:	Date	Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

Custody Seal Number: _____

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2704-W	Analyzed:	11-21-07 07:33	Analyzed:	11-21-07 08:01
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	9.2	92 %	10	9.3	93 %	1 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.8	98 %	10	10	102 %	4 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	10	102 %	10	11	106 %	4 %	70 - 130 %	25%
74-83-9	Bromomethane	10	10	104 %	10	11	105 %	1 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.7	97 %	10	10	101 %	4 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	8.8	88 %	10	8.7	87 %	2 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	19	93 %	20	20	99 %	5 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	9.9	99 %	10	9.6	96 %	3 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	19	96 %	20	19	96 %	0 %	70 - 130 %	25%
67-64-1	Acetone	20	18	89 %	20	17	84 %	6 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	20	102 %	20	20	100 %	2 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	10	103 %	10	9.2	92 %	11 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.5	95 %	10	9.3	93 %	3 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	10	102 %	10	9.6	96 %	6 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.5	95 %	10	9.4	94 %	1 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.1	91 %	10	8.8	88 %	3 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	11	107 %	10	10	101 %	6 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	22	112 %	20	21	107 %	5 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	10	101 %	10	9.8	98 %	3 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	22	109 %	20	22	108 %	0 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.5	95 %	10	9.3	93 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	8.7	87 %	10	8.4	84 %	4 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	8.9	89 %	10	8.5	85 %	6 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.7	97 %	10	9.5	95 %	3 %	70 - 130 %	25%
71-43-2	Benzene	10	10	104 %	10	10	100 %	4 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	8.6	86 %	10	8.7	87 %	2 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.5	95 %	10	9.0	90 %	5 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	101 %	10	9.9	99 %	2 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	9.5	95 %	10	9.3	93 %	2 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	9.5	95 %	10	9.3	93 %	2 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	230	113 %	200	210	107 %	5 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	9.9	99 %	10	10	101 %	2 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	23	116 %	20	23	115 %	1 %	70 - 130 %	25%
108-88-3	Toluene	10	10	102 %	10	9.9	99 %	4 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.9	99 %	10	10	100 %	1 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	113 %	10	11	113 %	0 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	10	104 %	10	11	105 %	1 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	111 %	10	11	108 %	2 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	25	124 %	20	25	123 %	1 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	105 %	10	11	107 %	2 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	111 %	10	11	109 %	1 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	11	105 %	10	11	107 %	1 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	11	107 %	10	9.9	99 %	8 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	11	108 %	10	11	110 %	2 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	22	109 %	20	22	109 %	0 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	11	108 %	10	11	108 %	0 %	70 - 130 %	25%
100-42-5	Styrene	10	12	116 %	10	12	117 %	1 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	106 %	10	10	105 %	2 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	10	101 %	10	9.8	98 %	3 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2704-W	Analyzed:	11-21-07 07:33	Analyzed:	11-21-07 08:01
Matrix:	Aqueous	Analyst:	LMG	Analyst:	LMG
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	104 %	10	11	105 %	1 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	11	107 %	10	9.9	99 %	8 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	11	107 %	10	11	107 %	1 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	10	102 %	10	10	100 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	10	102 %	10	9.7	97 %	5 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	103 %	10	10	100 %	4 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	10	100 %	10	9.6	96 %	3 %	70 - 130 %	25%
98-06-6	tert-Butylbenzene	10	10	102 %	10	9.9	99 %	3 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	106 %	10	10	105 %	1 %	70 - 130 %	25%
135-98-8	sec-Butylbenzene	10	10	100 %	10	9.7	97 %	3 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.8	98 %	10	9.7	97 %	1 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	10	100 %	10	9.8	98 %	2 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.8	98 %	10	9.8	98 %	0 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.9	99 %	10	10	100 %	1 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	10	100 %	10	9.9	99 %	2 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	9.2	92 %	10	8.5	85 %	8 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	8.8	88 %	10	8.7	87 %	1 %	70 - 130 %	25%
91-20-3	Naphthalene	10	10	101 %	10	10	101 %	0 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	9.9	99 %	10	9.7	97 %	1 %	70 - 130 %	25%
75-65-0	tert-Butyl Alcohol (TBA)	200	170	84 %	200	170	86 %	2 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.5	95 %	10	9.3	93 %	2 %	70 - 130 %	25%
637-92-3	Ethyl tert-butyl Ether (ETBE)	10	8.5	85 %	10	8.2	82 %	4 %	70 - 130 %	25%
994-05-8	tert-Amyl Methyl Ether (TAME)	10	9.0	90 %	10	8.7	87 %	4 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	9	91 %	10	9	90 %		70 - 130 %
1,2-Dichloroethane-d_4	10	9	90 %	10	10	104 %		70 - 130 %
Toluene-d_8	10	10	98 %	10	10	98 %		70 - 130 %
4-Bromofluorobenzene	10	9	95 %	10	9	94 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2704-W	Analyzed:	11-21-07 08:36
Matrix:	Aqueous	Analyst:	LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2704-W	Analyzed:	11-21-07 08:36
Matrix:	Aqueous	Analyst:	LMG

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	0.5
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	20
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	94 %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	97 %	70 - 130 %
Toluene-d_8	10	10	96 %	70 - 130 %
4-Bromofluorobenzene	10	10	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2705-W	Analyzed:	11-21-07 20:25	Analyzed:	11-21-07 20:53
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.6	86 %	10	9.3	93 %	9 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.8	98 %	10	11	109 %	11 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	9.9	99 %	10	11	111 %	12 %	70 - 130 %	25%
74-83-9	Bromomethane	10	10	103 %	10	11	110 %	6 %	70 - 130 %	25%
75-00-3	Chloroethane	10	10	101 %	10	11	106 %	5 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	9.1	91 %	10	9.5	95 %	4 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	84 %	20	18	92 %	9 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	9.4	94 %	10	9.9	99 %	5 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	17	86 %	20	18	91 %	5 %	70 - 130 %	25%
67-64-1	Acetone	20	21	105 %	20	23	114 %	9 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	18	91 %	20	19	96 %	5 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	10	104 %	10	10	102 %	2 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.5	95 %	10	9.5	95 %	1 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	9.1	91 %	10	9.3	93 %	2 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.7	97 %	10	9.9	99 %	3 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	9.1	91 %	10	9.4	94 %	4 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	104 %	10	10	103 %	1 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	21	106 %	20	19	97 %	9 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	9.8	98 %	10	9.9	99 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	24	118 %	20	21	103 %	14 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.9	99 %	10	9.8	98 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.0	90 %	10	9.1	91 %	1 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.3	93 %	10	9.4	94 %	1 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	10	100 %	10	10	102 %	2 %	70 - 130 %	25%
71-43-2	Benzene	10	10	103 %	10	10	105 %	1 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.2	92 %	10	9.3	93 %	0 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.6	96 %	10	9.8	98 %	2 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	101 %	10	10	105 %	4 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	10	103 %	10	10	100 %	3 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	9.9	99 %	10	10	100 %	1 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	210	107 %	200	210	106 %	1 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	10	102 %	10	10	103 %	1 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	23	113 %	20	22	110 %	2 %	70 - 130 %	25%
108-88-3	Toluene	10	10	103 %	10	11	105 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	104 %	10	10	103 %	0 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	10	104 %	10	11	109 %	4 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	10	104 %	10	11	108 %	4 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	112 %	10	12	117 %	4 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	22	109 %	20	23	117 %	7 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	107 %	10	11	105 %	2 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	11	106 %	10	11	108 %	2 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	103 %	10	11	106 %	3 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	100 %	10	10	102 %	2 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	11	109 %	10	11	112 %	3 %	70 - 130 %	25%
108-38-3/106-42-3	meta-Xylene and para-Xylene	20	22	108 %	20	22	111 %	3 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	11	110 %	10	11	112 %	2 %	70 - 130 %	25%
100-42-5	Styrene	10	11	115 %	10	12	120 %	5 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	108 %	10	11	110 %	2 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	9.9	99 %	10	10	104 %	5 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2705-W	Analyzed:	11-21-07 20:25	Analyzed:	11-21-07 20:53
Matrix:	Aqueous	Analyst:	CCT	Analyst:	CCT
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	102 %	10	10	104 %	1 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	10	100 %	10	10	102 %	2 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	11	110 %	10	11	113 %	3 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	10	100 %	10	10	104 %	4 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.4	94 %	10	9.8	98 %	4 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.8	98 %	10	10	101 %	4 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9.9	99 %	10	10	104 %	5 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	106 %	10	11	108 %	2 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	9.6	96 %	10	10	100 %	4 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.8	98 %	10	9.9	99 %	1 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.8	98 %	10	10	101 %	4 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.6	96 %	10	9.9	99 %	3 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	10	101 %	10	10	101 %	1 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	10	100 %	10	10	103 %	4 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	9.8	98 %	10	9.1	91 %	8 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.3	93 %	10	9.5	95 %	2 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	8.9	89 %	10	9.1	91 %	2 %	70 - 130 %	25%
91-20-3	Naphthalene	10	10	100 %	10	10	102 %	2 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	10	100 %	10	10	102 %	3 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	180	88 %	200	180	88 %	1 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	8.5	85 %	10	8.4	84 %	1 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	9.3	93 %	10	9.3	93 %	0 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	9	93 %	10	9	91 %		70 - 130 %
1,2-Dichloroethane-d_4	10	10	98 %	10	11	107 %		70 - 130 %
Toluene-d_8	10	10	102 %	10	10	99 %		70 - 130 %
4-Bromofluorobenzene	10	9	91 %	10	9	91 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2705-W	Analyzed:	11-21-07 21:41
Matrix:	Aqueous	Analyst:	CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-7 HP 6890
QC Batch ID:	VM7-2705-W	Analyzed:	11-21-07 21:41
Matrix:	Aqueous	Analyst:	CCT

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	0.5
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	20
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	96 %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	106 %	70 - 130 %
Toluene-d_8	10	10	98 %	70 - 130 %
4-Bromofluorobenzene	10	10	98 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-T — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health,
Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
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228 Main Street
Buzzards Bay, MA 02532

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FAX (508) 759-4475
www.groundwateranalytical.com

December 3, 2007

Mr. Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

LABORATORY REPORT

Project: **General Chemical/04-E-037**
Lab ID: **112506**
Received: **11-08-07**

Dear Jon:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC or NVLAP standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/elm
Enclosures

PROJECT RECEIPT CONFIRMATION

Project Name: General Chemical
Project Number: 04-E-037
Scheduled Due Date: 11-26-07

Laboratory Number: 112506

Dear Jon Aisner:

Thank you for choosing Groundwater Analytical for your testing needs. Below you will find a summary of the project we received on 11-08-07.

Lab ID	Field ID	Matrix	Sampled	Method Description
112506-1	GBIO-2	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112506-2	GBIO-1	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112506-3	RW-5D	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112506-4	RW-7	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112506-5	GBIO-3	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112506-6	CV-1	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates
112506-7	CV-2	Aqueous	11-06-07	EPA 8260B Volatile Organics with Oxygenates

Notes:

1. Project 112506 was received at a temperature of 5.3 C.

Results will be mailed to: Jon Aisner
WEB Engineering
104 Longwater Drive
Norwell, MA 02061

Please review the project information above to ensure that it is correct. If you wish to make any changes to the project, please contact us immediately. No reply to this notice is required if you would like us to proceed with the project as described above.

To contact us about this project, please send email to clientservices@groundwateranalytical.com or call 508-759-4441 and ask to speak to a Project Manager.

Your project is scheduled for completion on 11-26-07. A fax or e-mail containing the results will be sent to you once the project has been completed. Should you require the results before this date, please contact a Project Manager to discuss expediting the work.

We always try our best to complete projects on schedule, however occasionally factors beyond our control cause delays. We will contact you in the event your project becomes delayed.

Groundwater Analytical appreciates the opportunity to provide you with testing services.

Sincerely,

Client Services
Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **General Chemical/04-E-037**
Client: **WEB Engineering**
Lab ID: **112506**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **11-08-07**

Temperature: **5.3'C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112506-1	GBIO-2		Aqueous	11/6/07 14:35	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C1032624	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032614	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032604	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112506-2	GBIO-1		Aqueous	11/6/07 14:41	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C1032654	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032644	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032634	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112506-3	RW-5D		Aqueous	11/6/07 14:46	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C1032684	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032674	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032664	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112506-4	RW-7		Aqueous	11/6/07 14:51	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C1032694	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032693	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032605	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112506-5	GBIO-3		Aqueous	11/6/07 14:57	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C1032635	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032625	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032615	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112506-6	CV-1		Aqueous	11/6/07 15:02	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C1032665	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032655	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032645	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
112506-7	CV-2		Aqueous	11/6/07 15:08	EPA 8260B Volatile Organics with Oxygenates			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C1032695	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032685	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	
C1032675	40 mL VOA Vial	Proline	BX28675	HCL	R-5235B	10-19-07	11-02-07	

GROUNDWATER ANALYTICAL

Data Certification

Project:	General Chemical/04-E-037	Lab ID:	112506
Client:	WEB Engineering	Received:	11-08-07 14:45

MA DEP Compendium of Analytical Methods

Project Location: n/a — MA DEP RTN: n/a

This Form provides certifications for the following data set:

EPA 8260B: 112506-1,-2,-3,-4,-5,-6,-7

Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
Methods Used	8270C ( )	8081A ( )	VPH ( )	6020A ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )

1. List Release Tracking Number (RTN), if known.
2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method
3. S - SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

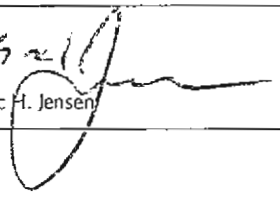
A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	No
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	Yes

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	No
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Operations Manager

Printed Name: Eric H. Jensen Date: 12-03-07

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GBIO-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-1	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:35	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 13:26	Dilution Factor:	500
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	730		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	6400		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	BRL		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	5100		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	2900		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	5300		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	16000		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GBIO-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-1	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:35	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 13:26	Dilution Factor:	500
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	n-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	tert-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	sec-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	n-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	tert-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl tert-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	tert-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.5	85 %	70 - 130 %
1,2-Dichloroethane-d_4	10	7.9	79 %	70 - 130 %
Toluene-d_8	10	8.3	83 %	70 - 130 %
4-Bromofluorobenzene	10	8.3	83 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GBIO-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-2	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:41	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 13:57	Dilution Factor:	1000
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	BRL		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	8400		ug/L	2500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl tert-butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*-1,2-Dichloroethene	5800		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	3500		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	6100		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	19000		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	500
95-47-6	*ortho*-Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GBIO-1	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-2	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:41	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 13:57	Dilution Factor:	1000
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	500
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	500
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.3	83 %	70 - 130 %
1,2-Dichloroethane-d_4	10	7.4	74 %	70 - 130 %
Toluene-d_8	10	8.4	84 %	70 - 130 %
4-Bromofluorobenzene	10	8.6	86 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-5D	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-3	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:46	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 15:25	Dilution Factor:	2000
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	1000
74-87-3	Chloromethane	BRL		ug/L	1000
75-01-4	Vinyl Chloride	BRL		ug/L	1000
74-83-9	Bromomethane	BRL		ug/L	1000
75-00-3	Chloroethane	BRL		ug/L	1000
75-69-4	Trichlorofluoromethane	BRL		ug/L	1000
60-29-7	Diethyl Ether	BRL		ug/L	4000
75-35-4	1,1-Dichloroethene	2600		ug/L	1000
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	10000
67-64-1	Acetone	BRL		ug/L	20000
75-15-0	Carbon Disulfide	BRL		ug/L	10000
75-09-2	Methylene Chloride	19000		ug/L	5000
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	1000
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	1000
75-34-3	1,1-Dichloroethane	1000		ug/L	1000
594-20-7	2,2-Dichloropropane	BRL		ug/L	1000
156-59-2	*cis*-1,2-Dichloroethene	8000		ug/L	1000
78-93-3	2-Butanone (MEK)	BRL		ug/L	10000
74-97-5	Bromochloromethane	BRL		ug/L	1000
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	10000
67-66-3	Chloroform	BRL		ug/L	1000
71-55-6	1,1,1-Trichloroethane	5800		ug/L	1000
56-23-5	Carbon Tetrachloride	BRL		ug/L	1000
563-58-6	1,1-Dichloropropene	BRL		ug/L	1000
71-43-2	Benzene	BRL		ug/L	1000
107-06-2	1,2-Dichloroethane	BRL		ug/L	1000
79-01-6	Trichloroethene	13000		ug/L	1000
78-87-5	1,2-Dichloropropane	BRL		ug/L	1000
74-95-3	Dibromomethane	BRL		ug/L	1000
75-27-4	Bromodichloromethane	BRL		ug/L	1000
123-91-1	1,4-Dioxane	BRL		ug/L	1000000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	1000
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	10000
108-88-3	Toluene	BRL		ug/L	1000
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	1000
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	1000
127-18-4	Tetrachloroethene	43000		ug/L	1000
142-28-9	1,3-Dichloropropane	BRL		ug/L	1000
591-78-6	2-Hexanone	BRL		ug/L	10000
124-48-1	Dibromochloromethane	BRL		ug/L	1000
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	1000
108-90-7	Chlorobenzene	BRL		ug/L	1000
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	1000
100-41-4	Ethylbenzene	BRL		ug/L	1000
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	1000
95-47-6	*ortho*-Xylene	BRL		ug/L	1000

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-5D	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-3	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:46	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 15:25	Dilution Factor:	2000
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	1000
75-25-2	Bromoform	BRL		ug/L	1000
98-82-8	Isopropylbenzene	BRL		ug/L	1000
108-86-1	Bromobenzene	BRL		ug/L	1000
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	1000
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	1000
103-65-1	*n*-Propylbenzene	BRL		ug/L	1000
95-49-8	2-Chlorotoluene	BRL		ug/L	1000
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	1000
106-43-4	4-Chlorotoluene	BRL		ug/L	1000
98-06-6	*tert*-Butylbenzene	BRL		ug/L	1000
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	1000
135-98-8	*sec*-Butylbenzene	BRL		ug/L	1000
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	1000
99-87-6	4-Isopropyltoluene	BRL		ug/L	1000
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	1000
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	1000
104-51-8	*n*-Butylbenzene	BRL		ug/L	1000
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	1000
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	1000
87-68-3	Hexachlorobutadiene	BRL		ug/L	1000
91-20-3	Naphthalene	BRL		ug/L	1000
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	1000
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	40000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	1000
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	1000
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	1000

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.3	83 %	70 - 130 %
1,2-Dichloroethane-d_4	10	7	70 %	70 - 130 %
Toluene-d_8	10	8.7	87 %	70 - 130 %
4-Bromofluorobenzene	10	8.4	84 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	RW-7	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-4	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:51	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 15:54	Dilution Factor:	200
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	100
74-87-3	Chloromethane	BRL		ug/L	100
75-01-4	Vinyl Chloride	170		ug/L	100
74-83-9	Bromomethane	BRL		ug/L	100
75-00-3	Chloroethane	BRL		ug/L	100
75-69-4	Trichlorofluoromethane	BRL		ug/L	100
60-29-7	Diethyl Ether	BRL		ug/L	400
75-35-4	1,1-Dichloroethene	210		ug/L	100
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	1000
67-64-1	Acetone	BRL		ug/L	2000
75-15-0	Carbon Disulfide	BRL		ug/L	1000
75-09-2	Methylene Chloride	670		ug/L	500
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	100
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	100
75-34-3	1,1-Dichloroethane	180		ug/L	100
594-20-7	2,2-Dichloropropane	BRL		ug/L	100
156-59-2	*cis*-1,2-Dichloroethene	4300		ug/L	100
78-93-3	2-Butanone (MEK)	BRL		ug/L	1000
74-97-5	Bromochloromethane	BRL		ug/L	100
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	1000
67-66-3	Chloroform	BRL		ug/L	100
71-55-6	1,1,1-Trichloroethane	1900		ug/L	100
56-23-5	Carbon Tetrachloride	BRL		ug/L	100
563-58-6	1,1-Dichloropropene	BRL		ug/L	100
71-43-2	Benzene	BRL		ug/L	100
107-06-2	1,2-Dichloroethane	BRL		ug/L	100
79-01-6	Trichloroethene	1800		ug/L	100
78-87-5	1,2-Dichloropropane	BRL		ug/L	100
74-95-3	Dibromomethane	BRL		ug/L	100
75-27-4	Bromodichloromethane	BRL		ug/L	100
123-91-1	1,4-Dioxane	BRL		ug/L	100000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	100
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	1000
108-88-3	Toluene	BRL		ug/L	100
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	100
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	100
127-18-4	Tetrachloroethene	4000		ug/L	100
142-28-9	1,3-Dichloropropane	BRL		ug/L	100
591-78-6	2-Hexanone	BRL		ug/L	1000
124-48-1	Dibromochloromethane	BRL		ug/L	100
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	100
108-90-7	Chlorobenzene	BRL		ug/L	100
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	100
100-41-4	Ethylbenzene	BRL		ug/L	100
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	100
95-47-6	*ortho*-Xylene	BRL		ug/L	100

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	RW-7	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-4	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:51	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 15:54	Dilution Factor:	200
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	100
75-25-2	Bromoform	BRL		ug/L	100
98-82-8	Isopropylbenzene	BRL		ug/L	100
108-86-1	Bromobenzene	BRL		ug/L	100
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	100
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	100
103-65-1	*n*-Propylbenzene	BRL		ug/L	100
95-49-8	2-Chlorotoluene	BRL		ug/L	100
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	100
106-43-4	4-Chlorotoluene	BRL		ug/L	100
98-06-6	*tert*-Butylbenzene	BRL		ug/L	100
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	100
135-98-8	*sec*-Butylbenzene	BRL		ug/L	100
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	100
99-87-6	4-Isopropyltoluene	BRL		ug/L	100
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	100
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	100
104-51-8	*n*-Butylbenzene	BRL		ug/L	100
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	100
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	100
87-68-3	Hexachlorobutadiene	BRL		ug/L	100
91-20-3	Naphthalene	BRL		ug/L	100
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	100
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	4000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	100
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	100
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	100

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.6	86 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.3	83 %	70 - 130 %
Toluene-d_8	10	9	90 %	70 - 130 %
4-Bromofluorobenzene	10	8.6	86 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	GBIO-3	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-5	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:57	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 16:23	Dilution Factor:	500
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	260		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	2000		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	18000		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	1300		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	18000		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	8400		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	16000		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	45000	e	ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	GBIO-3	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-5	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 14:57	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 16:23	Dilution Factor:	500
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.4	84 %	70 - 130 %
1,2-Dichloroethane-d_4	10	7.3	73 %	70 - 130 %
Toluene-d_8	10	8.2	82 %	70 - 130 %
4-Bromofluorobenzene	10	8.5	85 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	CV-1	Matrix:	Aqueous
Project:	General Chemical / 04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-6	QC Batch ID:	VM5-3662-W
Sampled:	11-06-07 15:02	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 23:44	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	500
74-87-3	Chloromethane	BRL		ug/L	500
75-01-4	Vinyl Chloride	BRL		ug/L	500
74-83-9	Bromomethane	BRL		ug/L	500
75-00-3	Chloroethane	BRL		ug/L	500
75-69-4	Trichlorofluoromethane	BRL		ug/L	500
60-29-7	Diethyl Ether	BRL		ug/L	2000
75-35-4	1,1-Dichloroethene	BRL		ug/L	500
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5000
67-64-1	Acetone	BRL		ug/L	10000
75-15-0	Carbon Disulfide	BRL		ug/L	5000
75-09-2	Methylene Chloride	BRL		ug/L	2500
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	500
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	500
75-34-3	1,1-Dichloroethane	BRL		ug/L	500
594-20-7	2,2-Dichloropropane	BRL		ug/L	500
156-59-2	*cis*- 1,2-Dichloroethene	4700		ug/L	500
78-93-3	2-Butanone (MEK)	BRL		ug/L	5000
74-97-5	Bromochloromethane	BRL		ug/L	500
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5000
67-66-3	Chloroform	BRL		ug/L	500
71-55-6	1,1,1-Trichloroethane	2200		ug/L	500
56-23-5	Carbon Tetrachloride	BRL		ug/L	500
563-58-6	1,1-Dichloropropene	BRL		ug/L	500
71-43-2	Benzene	BRL		ug/L	500
107-06-2	1,2-Dichloroethane	BRL		ug/L	500
79-01-6	Trichloroethene	4500		ug/L	500
78-87-5	1,2-Dichloropropane	BRL		ug/L	500
74-95-3	Dibromomethane	BRL		ug/L	500
75-27-4	Bromodichloromethane	BRL		ug/L	500
123-91-1	1,4-Dioxane	BRL		ug/L	500000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	500
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5000
108-88-3	Toluene	BRL		ug/L	500
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	500
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	500
127-18-4	Tetrachloroethene	9900		ug/L	500
142-28-9	1,3-Dichloropropane	BRL		ug/L	500
591-78-6	2-Hexanone	BRL		ug/L	5000
124-48-1	Dibromochloromethane	BRL		ug/L	500
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	500
108-90-7	Chlorobenzene	BRL		ug/L	500
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	500
100-41-4	Ethylbenzene	BRL		ug/L	500
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	500
95-47-6	*ortho*- Xylene	BRL		ug/L	500

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	CV-1	Matrix:	Aqueous
Project:	General Chemical / 04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-6	QC Batch ID:	VM5-3662-W
Sampled:	11-06-07 15:02	Instrument ID:	MS-5 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 23:44	Dilution Factor:	1000
Analyst:	CCT		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	500
75-25-2	Bromoform	BRL		ug/L	500
98-82-8	Isopropylbenzene	BRL		ug/L	500
108-86-1	Bromobenzene	BRL		ug/L	500
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	500
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	500
103-65-1	*n*-Propylbenzene	BRL		ug/L	500
95-49-8	2-Chlorotoluene	BRL		ug/L	500
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	500
106-43-4	4-Chlorotoluene	BRL		ug/L	500
98-06-6	*tert*-Butylbenzene	BRL		ug/L	500
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	500
135-98-8	*sec*-Butylbenzene	BRL		ug/L	500
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	500
99-87-6	4-Isopropyltoluene	BRL		ug/L	500
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	500
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	500
104-51-8	*n*-Butylbenzene	BRL		ug/L	500
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	500
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	500
87-68-3	Hexachlorobutadiene	BRL		ug/L	500
91-20-3	Naphthalene	BRL		ug/L	500
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	**500**
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	**20000**
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	**500**
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	500
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	500

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	**90 %**	70 - 130 %
1,2-Dichloroethane-d_4	10	9.6	**96 %**	70 - 130 %
Toluene-d_8	10	9	**90 %**	70 - 130 %
4-Bromofluorobenzene	10	10	**100 %**	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	CV-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-7	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 15:08	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 17:23	Dilution Factor:	500
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	250
74-87-3	Chloromethane	BRL		ug/L	250
75-01-4	Vinyl Chloride	BRL		ug/L	250
74-83-9	Bromomethane	BRL		ug/L	250
75-00-3	Chloroethane	BRL		ug/L	250
75-69-4	Trichlorofluoromethane	BRL		ug/L	250
60-29-7	Diethyl Ether	BRL		ug/L	1000
75-35-4	1,1-Dichloroethene	1000		ug/L	250
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	2500
67-64-1	Acetone	BRL		ug/L	5000
75-15-0	Carbon Disulfide	BRL		ug/L	2500
75-09-2	Methylene Chloride	BRL		ug/L	1300
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	250
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	250
75-34-3	1,1-Dichloroethane	650		ug/L	250
594-20-7	2,2-Dichloropropane	BRL		ug/L	250
156-59-2	*cis*-1,2-Dichloroethene	9300		ug/L	250
78-93-3	2-Butanone (MEK)	BRL		ug/L	2500
74-97-5	Bromochloromethane	BRL		ug/L	250
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	2500
67-66-3	Chloroform	BRL		ug/L	250
71-55-6	1,1,1-Trichloroethane	4800		ug/L	250
56-23-5	Carbon Tetrachloride	BRL		ug/L	250
563-58-6	1,1-Dichloropropene	BRL		ug/L	250
71-43-2	Benzene	BRL		ug/L	250
107-06-2	1,2-Dichloroethane	BRL		ug/L	250
79-01-6	Trichloroethene	10000		ug/L	250
78-87-5	1,2-Dichloropropane	BRL		ug/L	250
74-95-3	Dibromomethane	BRL		ug/L	250
75-27-4	Bromodichloromethane	BRL		ug/L	250
123-91-1	1,4-Dioxane	BRL		ug/L	250000
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	250
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	2500
108-88-3	Toluene	BRL		ug/L	250
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	250
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	250
127-18-4	Tetrachloroethene	9300		ug/L	250
142-28-9	1,3-Dichloropropane	BRL		ug/L	250
591-78-6	2-Hexanone	BRL		ug/L	2500
124-48-1	Dibromochloromethane	BRL		ug/L	250
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	250
108-90-7	Chlorobenzene	BRL		ug/L	250
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	250
100-41-4	Ethylbenzene	BRL		ug/L	250
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	250
95-47-6	*ortho*-Xylene	BRL		ug/L	250

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	CV-2	Matrix:	Aqueous
Project:	General Chemical/04-E-037	Container:	40 mL VOA Vial
Client:	WEB Engineering	Preservation:	HCl/Cool
Laboratory ID:	112506-7	QC Batch ID:	VM4-4013-W
Sampled:	11-06-07 15:08	Instrument ID:	MS-4 HP 6890
Received:	11-08-07 14:45	Sample Volume:	25 mL
Analyzed:	11-20-07 17:23	Dilution Factor:	500
Analyst:	DGM		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	250
75-25-2	Bromoform	BRL		ug/L	250
98-82-8	Isopropylbenzene	BRL		ug/L	250
108-86-1	Bromobenzene	BRL		ug/L	250
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	250
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	250
103-65-1	*n*-Propylbenzene	BRL		ug/L	250
95-49-8	2-Chlorotoluene	BRL		ug/L	250
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	250
106-43-4	4-Chlorotoluene	BRL		ug/L	250
98-06-6	*tert*-Butylbenzene	BRL		ug/L	250
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	250
135-98-8	*sec*-Butylbenzene	BRL		ug/L	250
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	250
99-87-6	4-Isopropyltoluene	BRL		ug/L	250
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	250
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	250
104-51-8	*n*-Butylbenzene	BRL		ug/L	250
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	250
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	250
87-68-3	Hexachlorobutadiene	BRL		ug/L	250
91-20-3	Naphthalene	BRL		ug/L	250
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	250
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	10000
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	250
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	250
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	250

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.9	89 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.4	84 %	70 - 130 %
Toluene-d_8	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	9.1	91 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**General Chemical/04-E-037**	Lab ID:	**112506**
Client:	**WEB Engineering**	Received:	**11-08-07 14:45**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. Samples 112506-01 through -07 were analyzed by EPA 8260B, as indicated on the container labels.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8260B Non-conformance: Samples 112506-1, -2, -3, -4, -5 and -7. Laboratory control sample dup (LCSD) analyte 1,1,2-trichlorotrifluoroethane was below recommended recovery limits for QC batch VM5-4013-W.

2. EPA 8260B Non-conformance: Sample 112506-5. Reported results for selected analyte exceeded the high standard of the associated calibration curve. Results are estimated. No additional sample was available for reanalysis.

3. EPA 8260B Non-conformance: Sample 112506-6. Laboratory control sample (LCS) analyte Acetone was below recommended recovery limits for QC batch VM5-3662-W.

4. EPA 8260B Note: Samples 112506-1 through -7. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

GROUNDWATER ANALYTICAL

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Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: General Chemical	Firm: WEB Engineering
Project Number: 04-E-037	Address: 104 Longwater Drive
Sampler Name: Bruce Obarsky	City / State / Zip: Norwell MA 02061
Project Manager: Jon Aisner	Telephone: 781-878-7766

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- [x] STANDARD (10 Business Days)
- [ ] PRIORITY (5 Business Days)
- [ ] RUSH (RAN- _____)
  (Rush requires Rush Authorization Number)
- [ ] Please Email to: _____
- [ ] Please FAX to: _____

BILLING

- [ ] Purchase Order No.: 04-E-037
- [ ] Third Party Billing: _____
- [x] GWA Quote: 0110-1707

ANALYSIS REQUEST

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
11-6-07	2:35	GB10-2	GROUNDWATER	GRAB	3	HCL		
	2:41	GB10-1	GROUNDWATER	GRAB	3	HCL		
	2:46	RW-5D	GROUNDWATER	GRAB	3	HCL		
	2:51	RW-7	GROUNDWATER	GRAB	3	HCL		
	2:57	GB10-3	GROUNDWATER	GRAB	3	HCL		
	3:02	CV-1	GROUNDWATER	GRAB	3	HCL		
	3:08	CV-2	GROUNDWATER	GRAB	3	HCL		

REMARKS / SPECIAL INSTRUCTIONS

- [ ] YES [ ] NO MCP Data Certification required.
- [ ] YES [ ] NO MCP Drinking Water Sample included.
  (Volatile analyses require duplicate collection and Trip Blanks).
- [ ] Analyze Duplicates and Trips Blanks only if positive results.
- [ ] YES [ ] NO CT RCP Data Certification required.

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
[ ] CT	[x] MCP GW-1/S-1	[ ] PWS Form
[ ] ME	[ ] MCP GW-2/S-2	[ ] MWRA
[x] MA	[ ] NY STARS	[ ] _____
[ ] NH	[ ] Drinking Water	
[ ] NY	[ ] Wastewater	
[ ] RI	[ ] Waste Disposal	
[ ] VT	[ ] Dredge Material	
[ ] ___	[ ] _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
[ ] Sample Duplicate	(Please use sample _____)
[ ] Matrix Spike	
[ ] Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time		
Relinquished by Sampler: Bruce Obarsky	11/6/07	6:07	Received by: Joe Leary 11/8/07 1037	Receipt Temperature: 5.3
Relinquished by: Joe Leary	11/8/07	1445	Received by: Brie Alexander	Container Count: 21
Relinquished by:	Date	Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: [x] GWA Courier [ ] Express Mail [ ] Federal Express [ ] UPS [ ] Hand [ ] _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-4013-WL	Analyzed:	11-21-07 12:28	Analyzed:	11-21-07 12:57
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.1	81 %	10	8.2	82 %	1 %	70 - 130 %	25%
74-87-3	Chloromethane	10	9.6	96 %	10	9.5	95 %	1 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	8.2	82 %	10	8.6	86 %	4 %	70 - 130 %	25%
74-83-9	Bromomethane	10	8.2	82 %	10	8.1	81 %	0 %	70 - 130 %	25%
75-00-3	Chloroethane	10	8.6	86 %	10	9.2	92 %	7 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	8.8	88 %	10	8.9	89 %	1 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	17	83 %	20	15	77 %	6 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	8.5	85 %	10	8.5	85 %	0 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	14	69 % q	20	14	70 %	1 %	70 - 130 %	25%
67-64-1	Acetone	20	16	79 %	20	16	79 %	1 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	16	80 %	20	16	81 %	1 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	9.9	99 %	10	9.7	97 %	2 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	8.5	85 %	10	8.6	86 %	0 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	9.5	95 %	10	9.5	95 %	0 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	9.6	96 %	10	9.7	97 %	1 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	8.8	88 %	10	8.4	84 %	4 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	9.6	96 %	10	9.2	92 %	4 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	20	100 %	20	16	81 %	22 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	8.8	88 %	10	9.1	91 %	3 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	17	86 %	20	17	84 %	2 %	70 - 130 %	25%
67-66-3	Chloroform	10	9.6	96 %	10	9.9	99 %	3 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.2	92 %	10	9.1	91 %	1 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	8.7	87 %	10	8.4	84 %	4 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	8.8	88 %	10	8.8	88 %	1 %	70 - 130 %	25%
71-43-2	Benzene	10	9.3	93 %	10	9.3	93 %	0 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	9.3	93 %	10	9.3	93 %	0 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.6	96 %	10	9.1	91 %	5 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	9.1	91 %	10	9.1	91 %	0 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	9.4	94 %	10	8.9	89 %	6 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	9.7	97 %	10	9.9	99 %	2 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	240	121 %	200	240	120 %	1 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	9.4	94 %	10	9.3	93 %	2 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	19	95 %	20	18	90 %	5 %	70 - 130 %	25%
108-88-3	Toluene	10	9.5	95 %	10	9.2	92 %	4 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	8.8	88 %	10	8.7	87 %	1 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	9.8	98 %	10	9.7	97 %	0 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	8.7	87 %	10	8.9	89 %	3 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	9.8	98 %	10	9.5	95 %	3 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	17	83 %	20	17	87 %	5 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	9.9	99 %	10	10	101 %	1 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	9.5	95 %	10	9.2	92 %	3 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	9.5	95 %	10	9.8	98 %	4 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	8.9	89 %	10	9.7	97 %	9 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.4	94 %	10	9.7	97 %	3 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	19	95 %	20	19	96 %	1 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	9.4	94 %	10	9.9	99 %	5 %	70 - 130 %	25%
100-42-5	Styrene	10	9.5	95 %	10	9.8	98 %	4 %	70 - 130 %	25%
75-25-2	Bromoform	10	9.2	92 %	10	9.2	92 %	0 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	10	105 %	10	10	103 %	1 %	70 - 130 %	25%

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM4-4013-WL	Analyzed:	11-21-07 12:28	Analyzed:	11-21-07 12:57
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	100 %	10	9.6	96 %	3 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	9.3	93 %	10	9.3	93 %	1 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	10	103 %	10	10	103 %	1 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	9.6	96 %	10	9.4	94 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.5	95 %	10	9	90 %	5 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	9.9	99 %	10	9.7	97 %	3 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	9.2	92 %	10	9.1	91 %	2 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9.5	95 %	10	9.6	96 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	9.9	99 %	10	9.9	99 %	0 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	9.6	96 %	10	9.4	94 %	2 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	9.7	97 %	10	9.6	96 %	2 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	9.7	97 %	10	9.4	94 %	3 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	9.4	94 %	10	9.3	93 %	0 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	9.6	96 %	10	9.4	94 %	2 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	9.5	95 %	10	9.4	94 %	1 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	9.8	98 %	10	9.8	98 %	1 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	9.7	97 %	10	9.8	98 %	1 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9	90 %	10	9	90 %	0 %	70 - 130 %	25%
91-20-3	Naphthalene	10	10	101 %	10	9.8	98 %	3 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	10	100 %	10	9.8	98 %	1 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	200	102 %	200	190	95 %	7 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.5	85 %	10	8.5	85 %	0 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	8.7	87 %	10	8.5	85 %	2 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	8.9	89 %	10	8.8	88 %	1 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	8.4	84 %	10	8.4	84 %		70 - 130 %
1,2-Dichloroethane-d_4	10	8.2	82 %	10	8.1	81 %		70 - 130 %
Toluene-d_8	10	8.8	88 %	10	8.6	86 %		70 - 130 %
4-Bromofluorobenzene	10	8.7	87 %	10	8.6	86 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VM5-4013-WB
Matrix: Aqueous

Instrument ID: MS-4 HP 6890
Analyzed: 11-21-07 13:59
Analyst: DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	EPA Method 8260B	Instrument ID:	MS-4 HP 6890
QC Batch ID:	VM5-4013-WB	Analyzed:	11-21-07 13:59
Matrix:	Aqueous	Analyst:	DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	sec-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	7.9	79 %	70 - 130 %
1,2-Dichloroethane-d_4	10	7.4	74 %	70 - 130 %
Toluene-d_8	10	8.3	83 %	70 - 130 %
4-Bromofluorobenzene	10	8.3	83 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VMS-3662-WL	Analyzed:	11-20-07 11:11	Analyzed:	11-20-07 11:51
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.7	87 %	10	8.5	85 %	2 %	70 - 130 %	25%
74-87-3	Chloromethane	10	10	100 %	10	10	103 %	3 %	70 - 130 %	25%
75-01-4	Vinyl Chloride	10	9	90 %	10	8.9	89 %	1 %	70 - 130 %	25%
74-83-9	Bromomethane	10	9.5	95 %	10	9.5	95 %	0 %	70 - 130 %	25%
75-00-3	Chloroethane	10	9.7	97 %	10	9.9	99 %	2 %	70 - 130 %	25%
75-69-4	Trichlorofluoromethane	10	9.2	92 %	10	9.3	93 %	1 %	70 - 130 %	25%
60-29-7	Diethyl Ether	20	19	95 %	20	19	96 %	0 %	70 - 130 %	25%
75-35-4	1,1-Dichloroethene	10	9.7	97 %	10	9.7	97 %	1 %	70 - 130 %	25%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	15	76 %	20	16	78 %	2 %	70 - 130 %	25%
67-64-1	Acetone	20	11	57 % q	20	12	59 % q	3 %	70 - 130 %	25%
75-15-0	Carbon Disulfide	20	17	86 %	20	17	87 %	2 %	70 - 130 %	25%
75-09-2	Methylene Chloride	10	10	104 %	10	10	104 %	0 %	70 - 130 %	25%
156-60-5	*trans*-1,2-Dichloroethene	10	9.5	95 %	10	10	101 %	6 %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	11	108 %	10	11	108 %	0 %	70 - 130 %	25%
75-34-3	1,1-Dichloroethane	10	10	100 %	10	10	102 %	2 %	70 - 130 %	25%
594-20-7	2,2-Dichloropropane	10	11	106 %	10	10	104 %	1 %	70 - 130 %	25%
156-59-2	*cis*-1,2-Dichloroethene	10	10	102 %	10	11	106 %	4 %	70 - 130 %	25%
78-93-3	2-Butanone (MEK)	20	17	84 %	20	17	84 %	1 %	70 - 130 %	25%
74-97-5	Bromochloromethane	10	11	107 %	10	11	110 %	2 %	70 - 130 %	25%
109-99-9	Tetrahydrofuran (THF)	20	24	118 %	20	23	117 %	1 %	70 - 130 %	25%
67-66-3	Chloroform	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
71-55-6	1,1,1-Trichloroethane	10	9.5	95 %	10	9.7	97 %	1 %	70 - 130 %	25%
56-23-5	Carbon Tetrachloride	10	9.1	91 %	10	9.4	94 %	4 %	70 - 130 %	25%
563-58-6	1,1-Dichloropropene	10	9.2	92 %	10	9.5	95 %	3 %	70 - 130 %	25%
71-43-2	Benzene	10	10	101 %	10	10	103 %	2 %	70 - 130 %	25%
107-06-2	1,2-Dichloroethane	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-01-6	Trichloroethene	10	9.5	95 %	10	9.7	97 %	2 %	70 - 130 %	25%
78-87-5	1,2-Dichloropropane	10	10	104 %	10	11	105 %	1 %	70 - 130 %	25%
74-95-3	Dibromomethane	10	11	110 %	10	11	111 %	1 %	70 - 130 %	25%
75-27-4	Bromodichloromethane	10	11	107 %	10	11	110 %	3 %	70 - 130 %	25%
123-91-1	1,4-Dioxane	200	170	86 %	200	180	91 %	5 %	70 - 130 %	25%
10061-01-5	*cis*-1,3-Dichloropropene	10	11	107 %	10	11	107 %	0 %	70 - 130 %	25%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	22	108 %	20	21	103 %	4 %	70 - 130 %	25%
108-88-3	Toluene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
10061-02-6	*trans*-1,3-Dichloropropene	10	10	101 %	10	10	105 %	4 %	70 - 130 %	25%
79-00-5	1,1,2-Trichloroethane	10	11	106 %	10	11	110 %	4 %	70 - 130 %	25%
127-18-4	Tetrachloroethene	10	9.1	91 %	10	9.6	96 %	5 %	70 - 130 %	25%
142-28-9	1,3-Dichloropropane	10	11	107 %	10	11	108 %	2 %	70 - 130 %	25%
591-78-6	2-Hexanone	20	17	83 %	20	17	83 %	0 %	70 - 130 %	25%
124-48-1	Dibromochloromethane	10	11	108 %	10	11	110 %	2 %	70 - 130 %	25%
106-93-4	1,2-Dibromoethane (EDB)	10	10	105 %	10	11	108 %	3 %	70 - 130 %	25%
108-90-7	Chlorobenzene	10	10	100 %	10	10	103 %	3 %	70 - 130 %	25%
630-20-6	1,1,1,2-Tetrachloroethane	10	10	104 %	10	11	106 %	2 %	70 - 130 %	25%
100-41-4	Ethylbenzene	10	9.9	99 %	10	10	103 %	4 %	70 - 130 %	25%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	99 %	20	21	104 %	4 %	70 - 130 %	25%
95-47-6	*ortho*-Xylene	10	10	100 %	10	10	104 %	3 %	70 - 130 %	25%
100-42-5	Styrene	10	10	103 %	10	11	107 %	4 %	70 - 130 %	25%
75-25-2	Bromoform	10	11	114 %	10	12	116 %	2 %	70 - 130 %	25%
98-82-8	Isopropylbenzene	10	10	103 %	10	11	106 %	3 %	70 - 130 %	25%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	EPA Method 8260B	Instrument ID:	MS-5 HP 6890	Instrument ID:	MS-5 HP 6890
QC Batch ID:	VMS-3662-WL	Analyzed:	11-20-07 11:11	Analyzed:	11-20-07 11:51
Matrix:	Aqueous	Analyst:	DGM	Analyst:	DGM
Units:	ug/L				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
108-86-1	Bromobenzene	10	10	105 %	10	11	107 %	2 %	70 - 130 %	25%
79-34-5	1,1,2,2-Tetrachloroethane	10	11	108 %	10	10	104 %	3 %	70 - 130 %	25%
96-18-4	1,2,3-Trichloropropane	10	12	120 %	10	12	120 %	0 %	70 - 130 %	25%
103-65-1	*n*-Propylbenzene	10	9.9	99 %	10	10	102 %	2 %	70 - 130 %	25%
95-49-8	2-Chlorotoluene	10	9.9	99 %	10	10	101 %	2 %	70 - 130 %	25%
108-67-8	1,3,5-Trimethylbenzene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
106-43-4	4-Chlorotoluene	10	10	102 %	10	10	104 %	2 %	70 - 130 %	25%
98-06-6	*tert*-Butylbenzene	10	9.7	97 %	10	9.8	98 %	1 %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	10	11	107 %	10	11	108 %	1 %	70 - 130 %	25%
135-98-8	*sec*-Butylbenzene	10	9.6	96 %	10	9.8	98 %	2 %	70 - 130 %	25%
541-73-1	1,3-Dichlorobenzene	10	10	102 %	10	10	103 %	0 %	70 - 130 %	25%
99-87-6	4-Isopropyltoluene	10	10	100 %	10	10	102 %	1 %	70 - 130 %	25%
106-46-7	1,4-Dichlorobenzene	10	10	103 %	10	10	105 %	1 %	70 - 130 %	25%
95-50-1	1,2-Dichlorobenzene	10	10	104 %	10	10	103 %	1 %	70 - 130 %	25%
104-51-8	*n*-Butylbenzene	10	9.9	99 %	10	10	102 %	3 %	70 - 130 %	25%
96-12-8	1,2-Dibromo-3-chloropropane	10	12	115 %	10	10	105 %	10 %	70 - 130 %	25%
120-82-1	1,2,4-Trichlorobenzene	10	11	108 %	10	11	109 %	0 %	70 - 130 %	25%
87-68-3	Hexachlorobutadiene	10	9.3	93 %	10	9.4	94 %	1 %	70 - 130 %	25%
91-20-3	Naphthalene	10	11	115 %	10	11	111 %	4 %	70 - 130 %	25%
87-61-6	1,2,3-Trichlorobenzene	10	11	111 %	10	11	108 %	2 %	70 - 130 %	25%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	200	100 %	200	210	106 %	5 %	70 - 130 %	25%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.8	98 %	10	10	100 %	1 %	70 - 130 %	25%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	9.9	99 %	10	9.8	98 %	1 %	70 - 130 %	25%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	12	115 %	10	11	112 %	3 %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	8.6	86 %	10	8.2	82 %		70 - 130 %
1,2-Dichloroethane-d_4	10	8.7	87 %	10	8.3	83 %		70 - 130 %
Toluene-d_8	10	9	90 %	10	8.9	89 %		70 - 130 %
4-Bromofluorobenzene	10	11	107 %	10	11	106 %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VMS-3662-WB
Matrix: Aqueous

Instrument ID: MS-5 HP 6890
Analyzed: 11-20-07 14:06
Analyst: DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	*trans*-1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*-1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*-1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*-1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	BRL		ug/L	0.5
95-47-6	*ortho*-Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: EPA Method 8260B
QC Batch ID: VMS-3662-WB
Matrix: Aqueous

Instrument ID: MS-5 HP 6890
Analyzed: 11-20-07 14:06
Analyst: DGM

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	sec-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	8.5	85 %	70 - 130 %
1,2-Dichloroethane-d_4	10	8.2	82 %	70 - 130 %
Toluene-d_8	10	8.9	89 %	70 - 130 %
4-Bromofluorobenzene	10	11	107 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental Lab/out state.pdf

MAINE

Department of Health and Human Services, MA0103 — Drinking Water and Wastewater
http://www.maine.gov/dhhs/eng/water/Templates/LabCertification/LabCertification.htm

Department of Environmental Protection, LB-0072 — Asbestos Analytical Laboratory (Bulk)

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor, Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 2027 — Drinking Water and Wastewater
http://www.des.state.nh.us/asp/NHELAP/labsview.asp

NIST NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)

NVLAP Lab Code 200751-1 — Bulk Asbestos Fiber Analysis (PLM)
http://ts.nist.gov/Standards/scopes/plmtm.htm

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water and Solid Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health, Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

Department of Health, Office of Occupational and Radiological Health, AAL-110B3 — Asbestos Analytical Service, Polarized Light Microscopy (PLM)
http://www.health.ri.gov/environment/occupational/asbestos/licensees/AsbestosAnalyticalLabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT87643 — Drinking Water Microbiological, Inorganic and Organic Analyses
http://healthvermont.gov/enviro/ph lab/documents/certified labs.pdf

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