

Transmitted Via Overnight Courier

January 30, 2009

Mr. Richard Fisher U.S. Environmental Protection Agency EPA - New England One Congress Street, Suite 1100 Boston, Massachusetts 02114-2023

#### Re: GE-Pittsfield/Housatonic River Site Groundwater Management Area 1 (GECD310) Groundwater Quality Monitoring Interim Report for Fall 2008

Dear Mr. Fisher:

In accordance with GE's approved Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area (September 2000) and Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Spring 2008 (July 2008), enclosed is the Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008. This report summarizes activities performed as part of the Plant Site 1 Groundwater Management Area (GMA 1) groundwater quality monitoring program during fall 2008, including the results of the latest groundwater sampling and analysis round at GMA 1. In addition, certain minor modifications to the interim monitoring program at GMA 1 are proposed in response to the results of the fall 2008 activities.

Please call me if you have any questions regarding this report.

Sincerely, KC for ichard W Gates,

Richard W. Gates Remediation Project Manager

Enclosure G:\GE\GE\_Pittsfield\_CD\_GMA\_IVReports and Presentations\Fall 2008 GW Report\034911324CvrLtr.DOC

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General Electric Company Pittsfield, Massachusetts

Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008

January 2009

#### Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008

(Fall 2008 GMA 1 Groundwater Quality Report)

General Electric Company Pittsfield, Massachusetts

Prepared for:

General Electric Company Pittsfield, Massachusetts

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Date: January 2009

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### Fall 2008 GMA 1 Groundwater Quality Report

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### 1. Introduction

#### 1.1 General

On October 27, 2000, a Consent Decree (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and several other government agencies was entered by the United States District Court for the District of Massachusetts. The CD governs (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soil, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts that collectively comprise the GE-Pittsfield/Housatonic River Site (the Site). For groundwater and non-aqueous-phase liquid (NAPL), the RAAs at and near the GE Pittsfield facility have been divided into five separate Groundwater Management Areas (GMAs), which are illustrated on Figure 1. These GMAs are described, together with the Performance Standards established for the response actions at and related to them, in Section 2.7 of the Statement of Work for Removal Actions Outside the River (SOW) (Appendix E to the CD), with further details presented in Attachment H to the SOW (Groundwater/NAPL Monitoring, Assessment, and Response Programs). This report relates to the Plant Site 1 Groundwater Management Area, also known as and referred to herein as GMA 1.

In September 2000, GE submitted a *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* (GMA 1 Baseline Monitoring Proposal). The GMA 1 Baseline Monitoring Proposal summarized the hydrogeologic information available at that time for GMA 1 and proposed groundwater and NAPL monitoring activities (incorporating as appropriate those activities that were in place at that time) for the baseline monitoring period at this GMA. EPA provided conditional approval of the GMA 1 Baseline Monitoring Proposal by letter of March 20, 2001. Thereafter, certain modifications were made to the GMA 1 baseline monitoring program as a result of EPA approval conditions and/or findings during field reconnaissance of the selected monitoring locations and, subsequently, during implementation of the baseline monitoring program.

The baseline monitoring program, which was initiated in fall 2001, consisted of four semiannual groundwater quality sampling events followed by preparation and submittal of reports summarizing the groundwater monitoring results and, as appropriate, proposal of modifications to the monitoring program. The fourth baseline monitoring report for GMA 1, entitled *Plant Site 1 Groundwater Management Area Baseline Groundwater Quality Interim Report for Spring 2003* (Spring 2003 GMA 1 Groundwater Quality Report), was submitted to EPA on July 30, 2003. Section 6.1.3 of Attachment H to the SOW provides that if the

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two-year "baseline" period ends prior to the completion of soil-related response actions at all the RAAs in a GMA, GE may make a proposal to EPA to modify and/or extend the Baseline Monitoring Program based on the results of the initial assessment and the estimated timing of future response actions at the RAAs in the GMA. The approved GMA 1 Baseline Monitoring Proposal also allows GE to propose a modification and/or extension of the baseline monitoring program based on the results of the initial assessment and the estimated timing of future response actions. The Spring 2003 GMA 1 Groundwater Quality Report contained such a proposal to modify and extend baseline groundwater quality monitoring activities at GMA 1 (under a program referred to as the interim monitoring program) until such time as the soil-related Removal Actions at the GMA 1 RAAs are completed and the specific components of a long-term groundwater guality monitoring program are determined. EPA conditionally approved the Spring 2003 GMA 1 Groundwater Quality Report by letter dated September 23, 2003. Under the approved interim monitoring program, annual water quality sampling (alternating between the spring and fall seasons) at selected GMA 1 wells began in spring 2004, following a limited sampling event in fall 2003 involving the collection of groundwater samples from six wells that did not yet have four complete rounds of sampling as part of the baseline monitoring program. The monitoring wells included in the interim monitoring program are shown on Figure 2.

As part of the interim groundwater quality monitoring program, GE is required to submit reports after each groundwater sampling event to summarize the groundwater monitoring results and related activities and, as appropriate, propose modifications to the monitoring The results of the most recent full round of interim groundwater sampling program. activities performed at this GMA in spring 2008 were provided in GE's July 2008 Plant Site 1 Groundwater Management Area Groundwater Quality Interim Report for Spring 2008 (Spring 2008 GMA 1 Groundwater Quality Report), which was conditionally approved by EPA in a letter dated November 25, 2008. That report also contained an evaluation of existing groundwater quality data at GMA 1 against applicable MCP Method 1 GW-2 and GW-3 groundwater standards and MCP UCLs for groundwater that were revised on February 14, 2008. As a result of those evaluations, GE proposed to discontinue interim PCB analyses at nine wells based on their compliance with the revised Method 1 GW-3 standard. In addition, to demonstrate compliance with the new Method 1 GW-2 standard for PCBs, GE proposed to conduct four rounds of semi-annual sampling and PCB analyses at 14 GW-2 monitoring wells that were initially analyzed only for VOCs under the baseline monitoring program. These modifications were conditionally approved by EPA in its November 25, 2008 letter to GE, which also required GE to demonstrate compliance with the new Method 1 GW-2 standard for PCBs at certain other GW-2 monitoring points. It should be noted that MDEP has informed EPA that the use of filtered samples is appropriate to assess compliance with the Method 1 GW-2 standard for PCBs. Therefore, with the concurrence of EPA, GE has utilized filtered PCB samples for such comparisons.

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GE initiated semi-annual PCB sampling and analysis at the required GW-2 monitoring wells in fall 2008. In addition, in accordance with Condition 2 of EPA's October 10, 2007 conditional approval letter, GE continued its semi-annual sampling and analysis of groundwater samples from two monitoring wells at Newell Street Area II (wells GMA1-25 and GMA1-27). The results of the third round of that sampling have been incorporated into this report. Following completion of four sampling rounds, the analytical data will be evaluated to determine whether further sampling and analysis is appropriate at those monitoring wells.

The results of the interim groundwater sampling activities conducted in fall 2008 are provided in this *Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008* (Fall 2008 GMA 1 Groundwater Quality Report). As requested by EPA in a March 29, 2007 letter conditionally approving a prior groundwater report, this report also contains groundwater elevation data collected at GMA 1 during the fall semi-annual monitoring event performed in October 2008 (both in data tables and plotted in groundwater elevation contour maps). GE will continue to present detailed discussions of GE's groundwater flow monitoring, including information on groundwater elevations, flow direction, and seasonal trends, as well as assessments of the presence and extent of NAPL at GMA 1 (including summaries of GE's NAPL recovery efforts), in the separate semi-annual reports submitted under GE's NAPL monitoring program. The most recent GMA 1 NAPL monitoring report (covering the spring 2008 monitoring period) was submitted to EPA in August 2008, and the NAPL monitoring report for the fall 2008 monitoring period will be submitted to EPA in February 2009.

#### 1.2 Background Information

As discussed above, the CD and SOW provide for the performance of groundwater-related monitoring and NAPL removal activities at a number of GMAs. Some of these GMAs, including GMA 1, incorporate multiple RAAs to reflect the fact that groundwater may flow between RAAs. GMA 1 encompasses 11 RAAs and occupies an area of approximately 215 acres (Figure 1). The RAAs within GMA 1 are:

- RAA 1 40s Complex;
- RAA 2 30s Complex;
- RAA 3 20s Complex;
- RAA 4 East Street Area 2-South;

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- RAA 5 East Street Area 2-North;
- RAA 6 East Street Area 1-North;
- RAA 12 Lyman Street Area;
- RAA 13 Newell Street Area II;
- RAA 14 Newell Street Area I;
- RAA 17 Silver Lake Area; and
- RAA 18 East Street Area 1-South.

GMA 1 contains a combination of GE-owned and non-GE-owned industrial areas, residential properties, and recreational areas, including land formerly owned by GE that has been, or will be, transferred to the Pittsfield Economic Development Authority (PEDA) pursuant to the Definitive Economic Development Agreement (DEDA). The Housatonic River flows through the southern portion of this GMA, while Silver Lake is located along the western boundary. Certain portions of this GMA originally consisted of land associated with oxbows or low-lying areas of the Housatonic River. Re-channelization and straightening of the Housatonic River in the early 1940s by the City of Pittsfield and the United States Army Corps of Engineers (USACE) separated several of these oxbows and low-lying areas from the active course of the river. These oxbows and low-lying areas were subsequently filled with various materials from a variety of sources, resulting in the current surface elevations and topography.

Groundwater flow patterns at GMA 1 generally reflect the topography of the site with flow toward the Housatonic River, except where influenced by features such as Silver Lake, the recharge pond, or by recovery systems which are pumped to induce hydraulic depressions in their vicinity. Although variations occur in groundwater elevations at various wells or portions of GMA 1, overall groundwater flow patterns have remained relatively stable for years. As shown on Figure 3, Groundwater flow conditions observed during fall 2008 display the typical patterns observed at GMA 1.

As required in EPA's November 25, 2008 conditional approval letter, GE has updated a figure originally presented in the September 2000 *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* which illustrates areas within GMA 1, where the average depth to groundwater is 15 feet or less below ground surface, utilizing groundwater elevation data collected from wells that are screened at or above the water

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table since 2000. The shallow groundwater areas identified at GMA 1 based on these recent data are illustrated on Figure 4 and a discussion of any variations from the original shallow groundwater mapping, including the need to perform additional evaluations near occupied structures located above the shallow groundwater areas is presented in Section 5.3.

As discussed in Section 1.1 above, the CD and the SOW provide for the performance of groundwater-related Removal Actions at the GMAs, including the implementation of groundwater monitoring, assessment, and recovery programs. In general, these programs consist of a baseline monitoring program conducted over a period of at least two years to establish existing groundwater conditions and a long-term monitoring program performed to assess groundwater conditions over time and to verify the attainment of the Performance Standards for groundwater. As set forth in the GMA 1 Baseline Monitoring Proposal and Addendum, the baseline monitoring program at this GMA initially involved a total of 65 monitoring wells. Subsequent modifications to the program resulted in the addition of one well (LSSC-08I) and replacement of five wells with substitute monitoring wells (ESA2S-52 for ES2-17, MW-3R for MW-3, GMA1-13 for 95-9, ESA1S-33 for ES1-8, and ES1-23R for ES1-23). All of these wells were monitored for groundwater elevations on a quarterly basis and sampled on a semi-annual basis for analysis of PCBs and/or certain other constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2chloroethylvinyl ether, and 1,2-diphenyhydrazine (Appendix IX+3). The specific groundwater quality parameters for each individual well were selected based on the monitoring objectives of the well.

After the fourth baseline sampling event at most of the wells in GMA 1 in spring 2003, EPA approved the implementation of the interim monitoring program until the completion of the soil-related Removal Actions at the GMA 1 RAAs, at which time GE will propose a long-term monitoring program. In the Spring 2003 GMA 1 Groundwater Quality Report, GE described its proposed interim groundwater quality monitoring program. Certain specific monitoring tasks were to be performed in fall 2003, and GE submitted its Fall 2003 GMA 1 Groundwater Quality Report providing the results of those tasks. Beginning in spring 2004, as approved by EPA, the interim groundwater quality monitoring program was to consist of annual sampling (alternating between the spring and fall seasons) and analysis for select constituents at 22 GMA 1 wells. Locations selected for interim groundwater quality monitoring were wells downgradient of known NAPL areas/recovery systems where no additional hydraulic controls are in place, and/or those wells where analytical results from the baseline monitoring rounds did not clearly indicate whether long-term monitoring would be necessary. Supplemental sampling outside of that annual schedule has been conducted at certain monitoring wells as required by EPA.

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Since the spring 2004 groundwater sampling event, GE has presented the results of each sampling event in interim and supplemental groundwater quality monitoring reports and, based on those results, has proposed and, following EPA approval, implemented modifications to the interim program. A number of program modifications were made in spring 2006, following revisions to the MCP Method 1 groundwater standards that took effect on April 3, 2006. On February 14, 2008, additional revisions to the MCP Method 1 groundwater standards took effect, and, as required by Condition 4 of EPA's April 8, 2008 conditional approval letter, the Spring 2008 GMA 1 Groundwater Quality Report discussed the revised standards, evaluated their implications on the interim groundwater quality monitoring program, and proposed further modifications to that program in response to those new standards.

A separate non-GE-related disposal site, as designated under the MCP, is located on an adjacent property near the northern edge of the Lyman Street Area. This disposal site is the O'Connell Mobil Station site (MDEP Site No. 1-13347) (also referred to as the "East Street Mobil Site") at 730 East Street. GE understands this site is currently being addressed by O'Connell Oil Associates, Inc. to satisfy the requirements of Massachusetts General Laws Chapter 21E and the MCP. Available documentation indicates that soluble-phase contaminants related to gasoline releases from the East Street Mobil Site may have migrated onto GMA 1. GE is required to include available monitoring results from response actions performed at this adjacent site in the groundwater monitoring reports for GMA 1, to the extent that information is available to GE. To fulfill this requirement, GE conducted a file search at MDEP in January 2009 to review any reports that have been submitted regarding this site since submittal of the Spring 2008 GMA 1 Groundwater Quality Report. The results of that file search, including a listing of the reports that were reviewed, is provided in Section 3.3.

#### 1.3 Format to Document

The remainder of this report is presented in four sections. Section 2 describes the groundwater quality-related activities performed at GMA 1 in fall 2008. Section 3 presents the analytical results obtained during the fall 2008 sampling event performed from October to December 2008. Section 4 provides a summary of the applicable groundwater quality Performance Standards identified in the CD and SOW, and provides an assessment of the results of the fall 2008 activities, including a comparison to those Performance Standards. Finally, Section 5 presents GE's discussion of the need for additional modifications to the GMA 1 interim groundwater quality monitoring program, proposes certain modifications to that interim groundwater monitoring program, and summarizes the schedule for future field and reporting activities related to groundwater quality at GMA 1.

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### 2. Field and Analytical Procedures

#### 2.1 General

The activities conducted as part of the interim groundwater monitoring program during fall 2008, and summarized herein, primarily involved the redevelopment of monitoring wells, monitoring well repair and replacement, measurement of groundwater levels, and collection and analysis of groundwater samples at select monitoring wells within GMA 1, as described in Table 1. Newly installed monitoring well construction details are found in Appendix F. The construction details of the wells that were sampled are provided in Table 2 and the spring 2008 field sampling data are presented in Appendix A. This section discusses the field procedures used to measure site groundwater levels and collect groundwater samples, as well as the methods used to analyze the groundwater samples. All activities were performed in general accordance with GE's approved Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP).

#### 2.2 Monitoring Well Inspections and Repairs

In spring 2008, monitoring well inventories were conducted at all wells sampled during the interim sampling event and at several wells that were monitored only for groundwater elevation and/or the presence of NAPL. A total of 128 wells were evaluated and, where necessary, flagged for additional well integrity evaluations to determine the need for repair or replacement, and an extensive well maintenance operation was initiated in fall 2008. This task included but was not limited to: reinstallation of manholes, protective covers, and flush mounted pads; replacement of missing bolts, washers, well cover gaskets; replacement of broken J-plug/well caps; and the adjustment/re-surveying of measuring point elevation marks. The well inventory results are summarized in Appendix A.

As specifically requested by the EPA prior to the fall 2008 sampling event (and documented in its November 25, 2008 letter to GE), monitoring wells ESA1N-52 and ES2-2A were checked for integrity and maintenance issues on September 24 and 26, 2008, respectively. The PVC well casing in well ESA1N-52 was found to be intact and the only specific maintenance need identified for the well was a new J-plug well cap and manhole cover, as the well's current cover is a non-bolting version. Prior to the spring 2009 monitoring event a new bolted cover for the manhole will be installed to prevent the possibility of future road run-off into the well vault. In addition, EPA requested the ESA1N-52 be re-developed due to a build-up of sediment resulting in depth to bottom discrepancies from year to year. That monitoring well re-development is discussed further in Section 2.3 below.

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Monitoring well ES2-2A was evaluated for integrity and was determined to be acceptable. A new J-plug, cover seal, and bolts were installed to prevent the possibility of flooding within the well's vault during significant rain events. Although the well vault was flooded upon inspection, no signs of drainage into the well itself were evident upon the evacuation of vault water.

#### 2.3 Monitoring Well Re-Development

Prior to the fall 2008 sampling round, each GW-2 monitoring well scheduled for PCB analysis was re-developed since those wells had generally not been sampled since the final full baseline sampling event in 2003. Additional monitoring wells within GMA 1 were also re-developed in GMA-1 based on observations of excessive sedimentation during the well inventories, or, for wells ESA1N-52 and ES2-2A, as required by EPA in its November 25, 2008 conditional approval letter.

For most wells, re-development consisted of groundwater removal by a positive displacement, peristaltic, and/or submersible pump (depending on well diameter and rate of recharge) until temperature/pH/conductivity field parameters stabilized and the purged groundwater was relatively free of sediment (i.e., less than 50 NTU). At well ESA1N-52, an additional development technique (air sparging) was attempted but GE was unable to remove coarser deposits in the well, which may include asphalt fragments. The rate of recharge at well ESA1N-52 was low and further hindered the development process. As discussed in Section 5.2, GE believes that a sufficient portion of the screen zone in this well has been cleared to allow groundwater elevation and LNAPL monitoring, but additional groundwater sample collection at this well is not recommended. As also discussed in the Spring 2008 GMA 1 Groundwater Quality Report and in Section 5.2 of this report, further sampling in this well is not necessary.

#### 2.4 Monitoring Well Installation and Development

During the GW-2 monitoring well re-development activities performed prior to the fall 2008 sampling event, well A7 was found to be paved over with concrete. As a result of these findings, GE installed replacement well A7-R at the location shown on Figure 2. Table 2 shows the survey data and well construction detail for this well, along with the other existing wells utilized in the GMA 1 monitoring program. The monitoring well construction log can be found in Appendix F.

Following installation, the replacement well was developed to remove fine materials (e.g., fine sand, silt, and/or clay) that may have accumulated in the filter pack and to ensure that the well screen was transmitting groundwater representative of the surrounding formation.

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Development was performed by surging the saturated portion of the well screen with a surge block and removing groundwater with a submersible pump and a positive displacement pump. Development of this well was continued until temperature/ pH/conductivity field parameters stabilized and the purged groundwater was relatively free of sediment (i.e., less than 50 NTU).

#### 2.5 Groundwater Elevation Monitoring

GE conducted the fall 2008 semi-annual groundwater elevation monitoring round at GMA 1 from October 27 through October 30, 2008. This activity involved the collection of groundwater elevation data at the locations listed in Table 3. Groundwater levels and NAPL thicknesses (where NAPL is present) were measured in accordance with the procedures specified in GE's approved FSP/QAPP. Groundwater elevations were, on average, approximately 1.08 feet higher than the elevations measured during the previous fall 2007 monitoring event. The groundwater elevation data presented in Table 3 from wells screened across or near the water table were used to prepare a groundwater elevation contour map for fall 2008 (Figure 3). Consistent with prior data, groundwater was found to generally flow toward the Housatonic River.

As required by EPA, GE also recorded Housatonic River flow data collected at the USGS gauging station in Coltsville, Massachusetts during the groundwater elevation monitoring and sampling events. The river flow data ranged from 30 to 552 cubic feet per second (cfs) during this period. In addition, GE monitored river elevations at the measuring points established at the Lyman Street and Newell Street bridges during each day of sampling to further assess potential changes in river conditions during the sampling event. No atypical river elevation readings were observed during the sampling event. The Housatonic River flow data and elevation readings are included in Appendix A.

#### 2.6 Groundwater Sampling and Analysis

The fall 2008 groundwater sampling event was performed between October 15 and December 11, 2008, with the exception of monitoring well GMA1-4, which could not be sampled due to insufficient water levels within the well. Groundwater samples were collected from the remaining sixteen groundwater monitoring wells scheduled for interim sampling. These samples were collected by the low-flow techniques specified in the FSP/QAPP, using either a bladder or peristaltic pump for the purging and collection of groundwater samples. The sampling methods utilized at each well are specified in Appendix A. Each monitoring well was purged utilizing low-flow techniques until field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized prior to sample collection. Field parameters were

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measured in combination with the sampling activities at the monitoring wells. The stabilized field parameter measurements are presented below and the field sampling data are provided in Appendix A.

Parameter	Units	Range of Stabilized Readings		
Turbidity	Nephelometric turbidity units (NTU)	1 to 215		
рН	pH units	6.63 to 11.31		
Specific Conductivity	Millisiemens per centimeter	0.841 to 6.069		
Oxidation-Reduction Potential	Millivolts	-227.3 to 95.3		
Dissolved Oxygen	Milligrams per liter	0.14 to 15.32		
Temperature	Degrees Celsius	8.07 to 20.29		

As shown above and in Table 4, one of the groundwater samples extracted from the monitoring wells in this sampling event had turbidity levels greater than the target level of 50 NTU upon stabilization. This well (17A) contained limited quantities of groundwater and was pumped dry prior to sampling and the elevated turbidity readings are attributed to a greater proportion of sediment mixing at the base of the wells. A similar situation occurred at well ES2-19, where no turbidity was recorded in Table 4. That well was purged dry before any turbidity readings could be collected. The well was sampled following recharge and a spot check of turbidity of the initial purge water did not produce a recordable value on the meter.

All of the wells displayed "normal" pH readings (i.e., between 6.63 and 7.71 pH units in fall 2008) with the exception of newly-installed replacement well A7-R, where a pH reading of 11.36 pH units was recorded during sampling. This elevated pH reading, which was confirmed by recalibrating the pH meter and with pH paper (see Appendix A), may be related to the presence of a boulder or rock layer that was encountered at the base of the well during installation in November 2008 or could be attributed to grout from the newly-installed well descending into the saturated zone during construction or development. Since the well was sampled just after the minimum required recovery time after installation and development, the groundwater pH may have been temporarily elevated, but it is anticipated that the pH will return to more typical levels with increased groundwater flow through the well over time. GE will carefully monitor the pH during the next scheduled sampling event at this location.

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The collected groundwater samples were submitted to SGS Environmental Services, Inc. of Wilmington, North Carolina (SGS) for laboratory analysis. For the two groundwater samples that were monitored for compliance with GW-3 standards (i.e., Newell Street Area II wells GMA1-25 and GMA1-27), the samples were submitted for analysis of the following constituents using the associated EPA methods:

Constituent	EPA Method
VOCs	8260B
SVOCs	8270C
PCBs (Filtered Samples)	8082

The remaining groundwater samples were collected to assess compliance with the Method 1 GW-2 standard for PCBs which went into effect on February 14, 2008, and were submitted for analysis of PCBs using EPA Method 8082. As discussed in Section 1.1, MDEP has informed EPA that the use of filtered samples is appropriate to assess compliance with the Method 1 GW-2 standard for PCBs and all of the PCB samples collected in fall 2008 were filtered prior to analysis.

Following receipt of the analytical data from the laboratory, the preliminary results were reviewed for completeness and compared to the Massachusetts Contingency Plan (MCP) Method 1 GW-2 and GW-3 standards (where applicable), and to the MCP Upper Concentration Limits (UCLs) for groundwater. The preliminary analytical results were presented in the next monthly report on overall activities at the GE-Pittsfield/Housatonic River Site.

The data were validated in accordance with the FSP/QAPP and the validated results were utilized in the preparation of this report. As discussed in the validation report provided as Appendix D, 99.9% of the fall 2008 groundwater quality data are considered to be useable, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP. The SVOC and PCB sample results were found to be 100% usable. VOC sample results were found to be 99.6% usable. The only rejected data was one VOC sample result where the 2-cloroethylvinylether data was rejected due to MS/MSD recovery deviations. The validated analytical results are summarized in Section 3 and discussed in Section 4 below.

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### 3. Fall 2008 Groundwater Analytical Results

#### 3.1 General

A description of the fall 2008 groundwater analytical results is presented in this section. The complete analytical data sets are summarized in Appendix B. Tables 5 and 6 provide a comparison of the concentrations of all detected constituents with the currently applicable groundwater quality Performance Standards established in the CD and SOW, while Table 7 presents a comparison of the concentrations of detected constituents with the UCLs for groundwater. An assessment of these results relative to those groundwater quality Performance Standards and the UCLs is provided in Section 4.

#### 3.2 Groundwater Sample Results

The following paragraphs provide an overview of the fall 2008 analytical results from the GMA 1 groundwater quality monitoring wells for each constituent group that was analyzed.

#### 3.2.1 VOC Results

Two groundwater samples were analyzed for VOCs during the fall 2008 sampling event. The VOC analytical results are summarized in Table 7 and Table B-1 of Appendix B. Only one VOC (methylene chloride) was detected at wells GMA1-25 and GMA1-27. All detected concentrations were at estimated levels below the Practical Quantitation Limit (PQL) and well below the applicable Method 1 and GW-2 and GW-3 standards.

#### 3.2.2 SVOC Results

Groundwater samples collected from two monitoring wells (wells GMA1-25 and GMA1-27) were analyzed for SVOCs during the fall 2008 sampling event. No SVOCs were detected at either sampling location, with the exception of a trace concentration of bis(2-ethylhexl)phthalate (a common laboratory contaminant) at well GMA1-25. No bis(2-ethylhexl)phthalate was detected in a duplicate sample analyzed from that well. The SVOC analytical results are summarized in Table 7 and Table B-1 of Appendix B.

#### 3.2.3 PCB Results

Filtered groundwater samples from sixteen monitoring wells were analyzed for PCBs as part of the fall 2008 sampling event. The PCB analytical results are summarized in Table 7 and Table B-1 of Appendix B. No PCBs were detected in any of the groundwater samples analyzed during this sampling event.

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#### 3.3 Adjacent MCP Disposal Site Monitoring Results

As mentioned above in Section 1.2, the O'Connell East Street Mobil Station site (MDEP Site No. 1-13347, also referred to as the "East Street Mobil Site") is located on adjacent property near the northern edge of the Lyman Street Area. GE understands that this site is currently being addressed by O'Connell Oil Associates, Inc. to satisfy the requirements of Massachusetts General Laws Chapter 21-E and the MCP. Available documentation indicates that soluble-phase contaminants related to gasoline releases from the East Street Mobil Site have been documented upgradient of GMA 1.

GE is required to include available monitoring results from response actions performed at this adjacent site in the groundwater monitoring reports for GMA 1, to the extent that information is available to GE. To fulfill this requirement, GE conducted a file search at MDEP on January 7, 2009 to review any reports that have been placed on file at MDEP regarding this site since the prior file search was conducted and reported in the Spring 2008 GMA 1 Groundwater Quality Report. One document pertaining to groundwater investigations and response actions at the East Street Mobil Site has been added to the MDEP files since the spring 2008 file search:

• Remedy Operation Status Report (ECS, September, 26 2008)

A site map and pertinent monitoring results from the most recent report reviewed for the East Street Mobil Site (i.e., the September 2008 Remedy Operation Status Report) are provided in Appendix E. That report describes the effectiveness of the oxygen sparging system activated at the site on September 11, 2006 and the results of the most recent groundwater sampling event conducted on May 1, 2008. The oxygen sparging monitoring data (September 11, 2006 through September 9, 2008) are provided in Appendix E and indicated an increase in dissolved oxygen in wells downgradient of the source area.

Based on the general trend of decreasing concentrations of dissolved phase gasoline constituents to levels below the applicable GW-2 and GW-3 groundwater standards, the oxygen sparging system was shut down on February 11, 2008 to evaluate if remediation goals were met and groundwater conditions remained stable. Groundwater sampling was conducted in March 2008 to evaluate the groundwater response to the oxygen sparging system shutdown. The results of the March 2008 monitoring showed that although the concentrations of certain constituents slightly increased at specific wells compared to the October 2007 sampling round, those concentrations were still well below the applicable GW-2 and GW-3 standards.

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The groundwater samples collected May 1, 2008 were evaluated for MNA and VPH carbon fractions constituents. When compared to the March 2008 and October 2007 results, some samples from the May 2008 on-site sampling event showed a continuing increase in petroleum constituents above the GW-2 and GW-3 standards. This increase resulted in the reactivation of the air sparging system. Monitoring and sampling results from this event can be found in Appendix E.

GMA 1 monitoring wells MW-4R and LSSC-16S are GW-2 monitoring points located downgradient from the East Street Mobil Site that were sampled during the spring 2008 sampling event and analyzed for VOCs (see Spring 2008 GMA 1 Groundwater Quality Report), including BTEX (benzene, toluene, ethylbenzene, and xylene). No BTEX constituents were detected in well LSSC-16S during the spring 2008 sampling event. Benzene was the only BTEX constituent detected in well MW-4R, at a concentration (0.0042 ppm) well below the MCP GW-2 Standard of 2 ppm for benzene. The downgradient wells MW-3R and LSSC-16S were analyzed for PCB during the fall 2008 sampling event, and evaluated for PCBs (See Appendix B).

Based on these results, it appears that the prior groundwater quality exceedances attributed to the East Street Mobil Site were confined to that site and appear to have been addressed by the remedial actions performed at that site, including the operation of a groundwater remediation system. According to the September 2008 Remedy Operation Status Report, the reactivated air sparging system was to remain in operation through the November 2008 groundwater event at the East Street Mobil Site, at which time it's effectiveness was to be re-evaluated. The results of that re-evaluation have not yet been filed with MDEP. As such, no additional actions beyond a continuation of the ongoing groundwater quality program at GMA 1 appear to be warranted to assess potential impacts to GMA 1 related to the East Street Mobil Site. GE will continue to review and assess the results from the East Street Mobil Site and downgradient areas within GMA 1 and will provide updates in future groundwater quality monitoring reports.

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### 4. Overall Assessment of Groundwater Results

#### 4.1 General

The information presented herein is based on the laboratory results obtained during the fall 2008 groundwater sampling event, supplemented with historical groundwater analytical data when applicable.

#### 4.2 Groundwater Quality Performance Standards

The Performance Standards applicable to response actions for groundwater at GMA 1 are set forth in Section 2.7 and Attachment H (Section 4.1) of the SOW. In general, the Performance Standards for groundwater quality are based on the groundwater classification categories designated in the MCP. The MCP identifies three potential groundwater categories that may be applicable to a given site. One of these, GW-1 groundwater, applies to groundwater that is a current or potential source of potable drinking water. None of the groundwater at any of the GMAs at the Site is classified as GW-1. However, the remaining MCP groundwater categories are applicable to GMA 1 and are described below:

- GW-2 groundwater is defined as groundwater that is a potential source of vapors to the indoor air of buildings. Groundwater is classified as GW-2 if it is located within 30 feet of an existing occupied building and has an average annual depth to groundwater of 15 feet or less. Under the MCP, certain constituents present within GW-2 groundwater represent a potential source of vapors to the indoor air of the overlying occupied structures.
- GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to be ultimately discharged to surface water. It should be noted that some groundwater within GMA 1 does not in fact discharge directly to surface water because of the operation of numerous groundwater pumping systems. Water extracted from these systems is transferred to an on-site treatment plant for processing prior to discharge. Nevertheless, in accordance with the CD and SOW, all groundwater at GMA 1 is considered as GW-3.

The CD and the SOW allow for the establishment of standards for GW-2 and GW-3 groundwater at the GMAs through use of one of three methods, as generally described in the MCP. The first, known as Method 1, consists of the application of pre-established numerical "Method 1" standards set forth in the MCP for both GW-2 and GW-3 groundwater (310 CMR 40.0974). These "default" standards have been developed to be conservative

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and will serve as the initial basis for evaluating groundwater at GMA 1. The current MCP Method 1 GW-2 and GW-3 standards for the constituents detected in the fall 2008 sampling event are listed in Tables 5 and 6, respectively. (In the event of any discrepancy between the standards listed in these tables and those published in the MCP, the latter will be controlling.) For constituents for which Method 1 standards do not exist, the MCP provides procedures, known as Method 2, for developing such standards (Method 2 standards) for both GW-2 (310 CMR 40.0983(2)) and GW-3 (310 CMR 40.0983(4)) groundwater. For such constituents that are detected in groundwater during the baseline monitoring program, Attachment H to the SOW states that in the Baseline Monitoring Program Final Report, GE must propose to develop Method 2 standards using the MCP procedures or alternate procedures approved by EPA, or provide a rationale for why such standards need not be developed. For constituents whose concentrations exceed the applicable Method 1 (or Method 2) standards, GE may develop and propose to EPA alternative GW-2 and/or GW-3 standards based on a site-specific risk assessment. This procedure is known as Method 3 in the MCP. Upon EPA approval, these alternative risk-based GW-2 and/or GW-3 standards may be used in lieu of the Method 1 (or Method 2) standards. Of course, whichever method is used to establish such aroundwater standards. GW-2 standards will be applied to GW-2 groundwater and GW-3 standards will be applied to GW-3 groundwater.

On February 14, 2008 MDEP implemented revised Method 1 numerical standards for a number of constituents in groundwater, and those standards were used in the preparation of this report. In addition, in its July 30, 2008 conditional approval letter related to the *Groundwater Management Area 2 Long-Term Monitoring Program Addendum to Monitoring Event Evaluation Report for Fall 2007*, EPA specified that the low-range guidance values developed in that report for cobalt and copper should represent the Method 2 GW-3 standards for these metals at all of the GE Pittsfield GMAs, including GMA 1 (although no samples were analyzed for those parameters in fall 2008).

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 1 consist of the following:

 At monitoring wells designated as compliance points to assess GW-2 groundwater (i.e., groundwater located at an average depth of 15 feet or less from the ground surface and within 30 feet of an existing occupied building), groundwater quality shall achieve any of the following:

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- a) the Method 1 GW-2 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-2 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards);
- alternative risk-based GW-2 standards developed by GE and approved by EPA as protective against unacceptable risks due to volatilization and transport of volatile chemicals from groundwater to the indoor air of nearby occupied buildings; or
- c) a condition, based on a demonstration approved by EPA, in which constituents in the groundwater do not pose an unacceptable risk to occupants of nearby occupied buildings via volatilization and transport to the indoor air of such buildings.
- 2. Groundwater quality shall ultimately achieve the following standards at the perimeter monitoring wells designated as compliance points for GW-3 standards:
  - a) the Method 1 GW-3 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-3 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or
  - alternative risk-based GW-3 standards proposed by GE and approved by EPA as protective against unacceptable risks in surface water due to potential migration of constituents in groundwater.

These Performance Standards are to be applied to the results of the individual monitoring wells included in the monitoring program. Several monitoring wells have been designated as the compliance points for attainment of the Performance Standards identified above. These wells were initially identified in the GMA 1 Baseline Monitoring Proposal (although certain modifications were made subsequent to submittal of that proposal as a result of EPA approval conditions, findings during field reconnaissance of the selected wells, or replacement of certain wells during the course of the baseline monitoring program). As described above in Section 2.6, only selected wells were sampled in fall 2008.

#### 4.3 Groundwater Quality – Fall 2008

For the purpose of generally assessing current groundwater quality conditions, the analytical results from the fall 2008 groundwater sampling event were compared to the applicable groundwater Performance Standards for GMA 1. These Performance Standards are described in Section 4.2 above, and are currently based (on a well-specific basis) on

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the MCP Method 1 GW-2 and/or GW-3 standards. The following subsections discuss the fall 2008 groundwater analytical results in relation to these Performance Standards, as well as in relation to the MCP UCLs for groundwater. In support of those discussions, Tables 5 and 6 provide a comparison of the concentrations of detected constituents with the currently applicable GW-2 and GW-3 standards, respectively, while Table 7 presents a comparison of the concentrations of detected constituents.

#### 4.3.1 Fall 2008 Groundwater Results Relative to GW-2 Performance Standards

As part of the fall 2008 program, groundwater samples were collected from sixteen wells designated as GW-2 monitoring locations that were scheduled to be sampled for PCBs (i.e., specifically wells ES2-19, GMA1-3, 17A, 95-20, A7-R, ES1-10, ES1-18, F-1, 95-25, LSSC-16S, MW-3R, MM-1,GMA1-25, GMA1-27, 37R, and 31R). Two of these wells (i.e., wells GMA1-25 and GMA1-27) are designated as GW-2/GW-3 wells and were also sampled for VOCs and SVOCs. As discussed in Section 2.6, well GMA1-4, an additional GW-2 monitoring well that was scheduled for sampling and analysis for PCBs, was unable to be sampled in fall 2008. Two additional wells listed in condition number 5 of EPA's November 25, 2008 conditional approval letter (which identified wells where GE is required to demonstrate compliance with the new GW-2 standard for PCBs) were not sampled in fall 2008, as those wells (i.e., wells 72R and GMA1-6) already have at least four rounds of PCB sampling, and the results are below the new GW-2 standards.

The fall 2008 groundwater analytical results for all detected constituents subject to MCP Method 1 GW-2 standards and a comparison of those results with the applicable MCP Method 1 GW-2 Standards are presented in Table 5. As shown in Table 5, none of the fall 2008 sample concentrations from the two GW-2 monitoring wells sampled and analyzed for VOCs was above the corresponding GW-2 Performance Standard and neither well exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells located within 30 feet of a school or occupied residential structure and as a trigger level for the proposal of interim response actions). These results are consistent with the available results from prior sampling events. No PCBs were detected in any of the GW-2 monitoring wells sampled in fall 2008.

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#### 4.3.2 Fall 2008 Groundwater Results Relative to GW-3 Performance Standards

Groundwater samples designated for GW-3 monitoring were collected from two monitoring wells (GMA1-25 and GMA1-27) during the fall 2008 interim sampling event. The fall 2008 groundwater analytical results for all constituents detected in these monitoring wells and a comparison of those results with the applicable MCP Method 1 GW-3 standards are presented in Table 6. Both wells are identified in Table 1 as upgradient GW-3 perimeter wells.

The comparisons set forth in Table 6 show that no constituents were found at levels above their respective MCP Method 1 GW-3 standards in groundwater samples collected in fall 2008.

#### 4.3.3 Fall 2008 Comparison to Upper Concentration Limits

In addition to comparing the fall 2008 groundwater analytical results with applicable MCP Method 1 GW-2 and GW-3 standards, the analytical results from all 16 wells that were sampled were compared with the UCLs for groundwater specified in the MCP (310 CMR 40.0996(7)). As shown in Table 7, none of the groundwater samples collected in fall 2008 contained constituent concentrations greater than any of the listed UCLs for groundwater.

#### 4.4 Overall Assessment of Groundwater Analytical Results

Graphs illustrating historical total VOC concentrations and filtered PCB concentrations for select wells sampled in fall 2008 that have been previously sampled and analyzed for those constituents are presented in Appendix C. Typically, Appendix C would also contain graphs of historical concentrations of individual constituents that exceeded the applicable MCP Method 1 GW-2 or GW-3 standards or UCLs during any of the prior baseline monitoring program sampling events at GMA 1. However, since no exceedances of the MCP Method 1 GW-2 or GW-3 standards have been documented at the two Newell Street Area II monitoring wells, no graphs have been prepared for individual VOCs or SVOCs at those locations based on comparisons to MCP criteria. The remaining wells were analyzed only for PCBs in fall 2008, and, therefore, since this sampling event represents the first of four rounds of PCB sampling and analysis at those wells, no additional graphs were prepared.

A review of the graphs contained in Appendix C, as well as historical data, indicates that constituent concentrations have been mostly at non-detectable or trace levels during the three monitoring rounds that have been performed at the two Newell Street Area II wells. At well GMA1-25, a single VOC was detected at a level below the PQL during each sampling round (i.e., acetone in fall 2007, toluene in spring 2008, and methylene chloride in fall

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2008), while no VOCs were detected at well GMA1-27 until the trace detection of methylene chloride in fall 2008. No PCBs have been detected in either well during any of the three monitoring events conducted.

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### 5. Proposed Monitoring Program Modifications and Schedule of Future Activities

#### 5.1 General

In spring 2004, GE initiated the interim groundwater quality monitoring program to be conducted until completion of the soil-related Removal Actions at the RAAs that comprise GMA 1. The interim monitoring program is designed to obtain additional data from locations where it is not yet clear whether the initial baseline groundwater quality results indicate that the well may require future monitoring in a long-term monitoring program.

GE has reviewed the results of its groundwater-related activities conducted at GMA 1 in fall 2008, including the groundwater analytical data from the fall 2008 interim sampling event for results that indicate the need to modify the interim monitoring program. The results of that evaluation and resulting proposed program modifications are discussed in Section 5.2 below. This section also summarizes the schedule for upcoming interim monitoring events and associated reporting activities.

#### 5.2 Assessment of Selected Monitoring Wells

In its November 25, 2008 conditional approval letter, EPA directed GE to re-develop wells ESA1N-52 and ES2-2A and to perform additional inspections and repairs to the wells to inhibit surficial inflow to the wells. Those activities were performed, as discussed in Section 2.3, and the results are discussed below.

GE was able to successfully develop and repair well ES2-2A and that well can be utilized for future monitoring and sampling activities. The next scheduled sampling round at this well will be conducted in fall 2009, when samples will be collected for VOC analysis under the annual interim groundwater quality monitoring program.

At well ESA1N-52, GE utilized multiple development techniques, but was unable to clear the obstruction in the well, which is believed to be an asphalt fragment. A review of historical groundwater monitoring data shows that the measured depth to bottom of the well began to decrease in early 2004 and by spring 2008 the well was approximately 10 feet shallower than the depths recorded in 2003 and earlier. GE was able to remove approximately two feet of sediment from the well during the fall 2008 development activities, but significant accumulations still remain in the well. Although the well was not completely cleared, a sufficient portion of the well screen is available to permit water level and LNAPL monitoring to continue at this location.

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This well was previously included in the interim monitoring program for annual PCB analyses. However, in the Spring 2008 GMA 1 Groundwater Quality Report, GE proposed to discontinue PCB monitoring at this location since the historical PCB results were well below the revised MCP Method 1 standards for PCBs. In response, EPA stated in its November 25, 2008 conditional approval letter that groundwater quality data from this well since 2003 may be questionable due to the accumulation of sediment, and EPA required GE to further evaluate the existing data to determine if additional monitoring is required. GE has reviewed the historical data from this well and found that four rounds of baseline sampling were completed at well ESA1N-52 by spring 2003, well before the deposition began to occur in the well. Therefore, data sufficient to characterize this location were collected at times before there could have been a question concerning any possible effects of sediment deposition in the well. PCBs were detected in the well during two of four baseline sampling events and the maximum filtered PCB concentration observed during the baseline period was 0.00079 ppm in fall 2002, which is well below both the current Method 1 GW-2 (0.005 ppm) and GW-3 (0.01 ppm) standards. Since spring 2003, the well was sampled for PCBs on four occasions. PCBs were detected during two of those interim sampling rounds with a maximum detected concentration of 0.000087 ppm, which is also well below the applicable Performance Standards. Therefore, it does not appear that additional PCB characterization is necessary at well ESA1N-52, regardless of whether the post-2003 results are utilized. For non-PCB constituents, all data from this well were collected during the baseline monitoring rounds performed before accumulation of sediment. Thus, GE's prior conclusion that no further sampling is needed at the well remains valid.

#### 5.3 Overview of Shallow Groundwater Areas at GMA 1

Condition 6 of EPA's November 25, 2008 conditional approval letter required GE to update a figure originally presented in the September 2000 GMA 1 Baseline Monitoring Proposal which illustrated areas within GMA 2 where the average depth to groundwater is within 15 feet of the ground surface, utilizing groundwater elevation data collected between 2000 and 2008. The updated areas with groundwater at an average depth of less than 15 feet, which are illustrated on Figure 4, are very similar to the areas identified during preparation of the baseline monitoring proposal. Relatively minor variations between the figures occur in East Street Area 2-North, where a reduced shallow groundwater area is present in the western portion (based on data collected from well GMA1-4, which were not available at the time the previous figure was prepared) and a greater percentage of the eastern portion of that RAA contains shallow groundwater (based on data from well ES1-27R collected during the baseline monitoring period). No occupied buildings were identified above the revised shallow groundwater areas that were not similarly illustrated in the prior mapping, which was utilized to determine the GW-2 characterization needs for GMA 1. Therefore, no

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additional GW-2 groundwater quality monitoring is proposed based on this updated assessment.

#### 5.4 Proposed Modifications to Interim Monitoring Program

GE has previously presented evaluations of the sampling results from GMA 1 and proposed to retain certain wells for selected analyses in the interim monitoring program to provide additional data to assist in the determination of whether long-term monitoring would be necessary. Generally speaking, wells that contained constituent concentrations near the values of the future Performance Standards (i.e., average concentrations ranging from greater than 50% of an applicable MCP Method 1 Standard to slightly above the standard) were retained for interim monitoring. In addition, selected wells/analyses were added to the interim monitoring program regardless of constituent concentrations relative to standards based on their location in areas of interest (e.g., adjacent to known source areas and upgradient from occupied buildings), or if constituent concentrations exhibited an increasing trend during the course of baseline monitoring. Groundwater quality monitoring was proposed to be discontinued at locations where constituent concentrations consistently exceeded the standards, as it was apparent that such locations either would not or would be included in a long-term monitoring program.

Most recently, following revisions to the MCP that became effective on February 14, 2008, GE re-evaluated the existing groundwater quality data at GMA 1 and identified several locations that should be added to or removed from the interim monitoring program and, in the Spring 2008 GMA 1 Groundwater Quality Report, GE proposed several modifications to the interim monitoring program, particularly in response to the modification of the Method 1 GW-3 standard for PCBs (from 0.0003 ppm to 0.01 ppm) and the promulgation of a new Method 1 GW-2 standard for PCBs. The modifications to the annual interim sampling program discussed proposed in that report, as conditionally approved by EPA, will be implemented during the next annual interim sampling event in fall 2009, and GE does not propose any changes to those activities at this time. The semi-annual analysis for PCBs at selected GW-2 monitoring wells was initiated in fall 2008 and was the primary sampling activity conducted during the fall 2008 monitoring period, along with collection of the third round of analytical data at Newell Street Area II wells GMA-25 and GMA1-27. Since the fall 2008 sampling event was only the first of four required PCB characterization rounds at the GW-2 wells, only minimal changes to the program are proposed at this time. Specifically, GE proposes to:

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- Continue to utilize well A7-R as a replacement for well A7, which was found to be destroyed. Since elevated pH readings were recorded during the initial sampling event at this well, GE will pay particular attention to the pH data during the spring 2009 sampling event and will discuss the results in the next monitoring report.
- Remove well GMA1-4 from the GW-2/PCB assessment sampling program, since the average annual depth to water at this well is deeper than the 15 foot criteria for GW-2 groundwater. The GW-2 designation was previously removed from this well, with EPA approval, following a proposal by GE to discontinue VOC sampling at this well in spring 2003. However, GE will continue to measure water levels at this well as part of the remaining semi-annual PCB sampling events and will collect groundwater samples for PCB analysis if a depth to water of 15 feet or less is observed and there is an adequate quantity of water in the well to collect the required sample volume.
- Continue to utilize well ESA1N-52 for groundwater elevation and NAPL monitoring purposes only. As discussed in Section 5.2 above, no additional sampling is proposed at this location.

A summary of the interim sampling program for GMA 1 in spring 2009, as proposed to be modified herein, is provided in Table 8, and the locations where sampling is to be conducted, as proposed to be modified herein, are illustrated on Figure 4.

The wells proposed to be sampled and analyzed for PCBs for comparison to the new GW-2 standard are proposed to be sampled on a semi-annual basis until four sets of PCB data have been collected. At that time, GE will evaluate the data and propose whether to add any of the wells to the ongoing interim or long-term monitoring program at GMA 1. As approved by EPA, based on discussions with MDEP, GE will continue to analyze filtered groundwater samples for comparison with the GW-2 standard.

Additional details on the sampling and reporting schedule at GMA 1 are provided below.

#### 5.5 Field Activities Schedule

GE will conduct the spring 2009 interim groundwater sampling event at GMA 1 in April 2009, in conjunction with groundwater sampling activities that will be performed at the other GMAs. Pursuant to EPA's October 10, 2007 conditional approval letter, the spring 2009 interim sampling event will include the fourth of four required semi-annual sampling and analysis (for VOCs, SVOCs, and filtered PCBs) rounds at wells GMA1-25 and GMA1-27. That sampling event will also include the second of four required semi-annual sampling and analysis rounds for PCBs (filtered samples) at the GW-2 monitoring locations where

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compliance with the new MCP Method 1 GW-2 standard for PCBs was not verified during the initial baseline monitoring program (see Table 8).

Consistent with the schedule as approved by EPA, the interim sampling events alternate between spring and fall schedules until a long-term groundwater quality monitoring program is implemented at GMA 1. Therefore, the next full interim sampling event will not be conducted until fall 2009. The group of GW-2 wells scheduled for semi-annual sampling and PCB analysis discussed above will also be sampled in fall 2009.

The spring 2009 semi-annual groundwater elevation and NAPL monitoring event will also be conducted in April 2009 at all wells included in the GMA 1 NAPL monitoring program. Results from that monitoring event will be incorporated into the next groundwater quality monitoring report for GMA 1.

Prior to performance of these activities, GE will provide EPA with 7 days advance notice to allow the assignment of field oversight personnel.

#### 5.6 Reporting Schedule

GE will continue to provide the results of preliminary groundwater analytical data in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

GE will submit the Spring 2009 Interim Groundwater Quality Report for GMA 1 by July 31, 2009, in accordance with the reporting schedule approved by EPA. That report will present the final, validated spring 2009 interim sampling results and a brief discussion of the results, including an assessment of the four rounds of sampling results from Newell Street Area II wells GMA1-25 and GMA1-27 and the need for any additional groundwater characterization activities at those locations, and any proposals to further modify the interim monitoring program, if necessary. GE will also include an updated summary of available groundwater monitoring results and analytical data collected at the adjacent East Street Mobil Site, to the extent that such information is available to GE.

Subsequent annual interim Groundwater Quality Reports for GMA 1 will be submitted by January 31 where sampling activities were performed in the prior fall, or by July 31 where sampling activities were performed in the prior spring.

Tables

# Table 1 Fall 2008 Interim Groundwater Quality Monitoring Wells

#### Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report For Fall 2008 General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Well Usage	Sampling Schedule	Fall 2008 Analyses <sup>(3)</sup>	Comments						
RAA 1 - 40s COMP	RAA 1 - 40s COMPLEX									
No interim gr	oundwater quality monitoring sched	uled to be performe	d in this RAA.							
RAA 2 - 30s COMP	LEX									
No interim gr	oundwater quality monitoring sched	uled to be performe	d in this RAA.							
RAA 3 - 20s COMP	LEX									
ES2-19	GW-2 Sentinel	Semi-annual <sup>(1)</sup>	PCB							
GMA1-3	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
RAA 4 - EAST STR	EET AREA 2-SOUTH	•								
95-25	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
95-20	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
RAA 5 - EAST STR	EET AREA 2-NORTH	-								
17A	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
95-20	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
A7-R	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
ES1-10	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
ES1-18	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
F-1	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
GMA1-4	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB	Insuffient groundwater available to collect sample in fall 2008						
RAA 6 - EAST STR	RAA 6 - EAST STREET AREA 1-NORTH									
No interim groundwater quality monitoring scheduled to be performed in this RAA.										
	RAA 12 - LYMAN STREET AREA									
LS-MW-3R	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB							
LSSC-16S	GW-2 Sentinel	Semi-annual <sup>(1)</sup>	PCB							

# Table 1 Fall 2008 Interim Groundwater Quality Monitoring Wells

#### Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report For Fall 2008 General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Well Usage	Sampling Schedule	Fall 2008 Analyses <sup>(3)</sup>	Comments	
RAA 13 - NEWELL	STREET AREA II				
GMA1-25	GW-2 Sentinel/ GW-3 Perimeter (Upgradient)	Semi-annual <sup>(2)</sup>	VOC/SVOC/PCB		
GMA1-27	GW-2 Sentinel/ GW-3 Perimeter (Upgradient)	Semi-annual <sup>(2)</sup>	VOC/SVOC/PCB		
RAA 14 - NEWELL	STREET AREA I				
MM-1	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB		
RAA 18 - EAST STREET AREA 1 SOUTH					
31R	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB		
37R	GW-2 sentinel	Semi-annual <sup>(1)</sup>	PCB		

NOTES:

1. Several GW-2 Sentinel wells were added to the interim monitoring program in fall 2008 to assess compliance with the new MCP Method 1 GW-2 standard for PCBs. These wells are scheduled for four semiannual rounds of groundwater quality sampling for PCBs, after which the needs for additional sampling during the interim period or as part of a long-term monitoring program will be assessed.

2. Wells GMA1-25 and GMA1-27 were added to the interim monitoring program in fall 2007 and are scheduled for four semi-annual rounds of groundwater quality sampling for the listed parameters, after which the needs for additional sampling during the interim period or as part of a long-term monitoring program will be assessed.

3. All analyses for PCBs conducted under the GMA 1 groundwater quality monitoring program are performed on filtered samples only.

#### Table 2 Monitoring Well Construction

#### Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report For Fall 2008 General Electric Company - Pittsfield, Massachusetts

			Well	Ground Surface	Measuring Point	Depth to Top of	Screen	Top of Screen	Base of Screen
Well Number	Survey Co	oordinates	Diameter	Elevation	Elevation	Screen	Length	Elevation	Elevation
	Northing	Easting	(inches)	(feet AMSL)	(feet AMSL)	(feet BGS)	(feet)	(feet AMSL)	(feet AMSL)
RAA 2 - 30s Cor	nplex							•	
ES2-19	534344.3200	131781.7900	0.75	1,007.6	1,007.22	11.5	8	996.1	988.1
GMA1-3	533679.9000	131685.4000	2	991.3	990.78	5.7	10	985.6	975.6
RAA 4 - East Str	eet Area 2-Sou	th							
95-25	533090.3600	131385.7800	0.75	985.1	988.20	8	10	977.1	967.1
RAA 5 - East Str	eet Area 2-Nor	th						•	
17A	535187.4500	132107.0500	2	1,024.2	1,023.86	5	15	1,019.2	1,004.2
95-20	534445.1600	133286.9800	0.75	1,010.8	1,010.67	10	10	1,000.8	990.8
A7-R			2			5.1	12		
ES1-10	534813.9000	134583.8000	0.75	1,024.0	1,023.99	7	10.5	1,017.0	1,006.5
ES1-18	535027.2200	133724.9700	0.75	1,049.8	1,049.71	4	10	1,045.8	1,035.8
F-1	534711.0000	134287.3000	2	1,024.0	1,023.84	4	15	1,020.0	1,005.0
GMA1-4	534702.1000	132178.3000	2	1,011.8	1,011.52	10.3	10	1,001.5	991.5
RAA 12 - Lyman	Street Area								
LSSC-16S	532500.5000	130690.3000	2	981.5	981.37	5.0	10	976.5	966.5
LS-MW-3R	532589.5000	130460.6000	2	983.8	983.54	5.2	10	978.6	968.6
RAA 13 - Newell	Street Area II							•	
GMA1-25	532475.2000	131882.3000	2	987.5	987.19	5	10	982.5	972.5
GMA1-27	532319.7000	131693.2000	2	981.3	983.29	4	10	977.3	967.3
RAA 18 - East S	treet Area 1-So	uth							
31R	534143.9000	134059.5000	2	1,000.5	1,000.23	5.5	10	995.0	985.0
37R	533949.6000	133932.6000	2	989.0	988.79	7.77	10	981.3	971.3

NOTES:

1. The listed wells were scheduled to be utilized during fall 2008 for interim groundwater quality sampling.

2. feet AMSL: Feet above mean sea level

3. feet BGS: Feet below ground surface

#### Table 3

Groundwater Elevation Data - Fall 2008 Monitoring Round

Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report For Fall 2008 General Electric Company - Pittsfield, Massachusetts

		Groundwater Elevation
Well ID	Date	(Feet AMSL <sup>1</sup> )
40s Complex		
95-17	10/27/2008	983.71
30s Complex		
ES2-19	10/27/2008	994.06
GMA1-3	10/27/2008	983.92
GMA1-12	10/27/2008	977.78
RF-03	10/27/2008	977.81
RF-03D	10/27/2008	978.38
RF-16R	10/27/2008	978.38
20s Complex	/	
CC	10/27/2008	NA
EE	10/27/2008	979.74
GG	10/27/2008	981.55
	10/27/2008	980.53
JJ	10/27/2008	979.81
LL-R	10/27/2008	981.05
P-R	10/27/2008	979.26
QQ-R	10/27/2008	979.47
U	10/27/2008	980.26
Y	10/27/2008	979.55
East Street Area 2-Sout	h	
01R	10/27/2008	980.59
2	10/27/2008	978.14
5	10/27/2008	981.69
6	10/27/2008	976.92
09R	10/27/2008	973.49
10	10/27/2008	NA
13	10/27/2008	973.02
14	10/27/2008	973.74
16R	10/27/2008	973.85
19	10/27/2008	972.86
25R	10/27/2008	977.41
26RR	10/27/2008	978.31
28	10/27/2008	975.23
29	10/27/2008	973.42
30	10/27/2008	977.43
31	10/27/2008	977.31
32	10/27/2008	979.03
34	10/27/2008	975.79
35	10/27/2008	973.86

Groundwater Elevation Data - Fall 2008 Monitoring Round

		Groundwater Elevation
Well ID	Date	(Feet AMSL <sup>1</sup> )
36	10/27/2008	974.67
37	10/27/2008	974.72
38	10/27/2008	975.83
42	10/27/2008	976.25
43	10/27/2008	975.20
44	10/27/2008	976.17
47	10/27/2008	973.39
48	10/27/2008	976.72
49R	10/27/2008	973.58
49RR	10/27/2008	973.41
50	10/27/2008	975.09
51	10/27/2008	973.62
ESA2S-52	10/27/2008	973.28
53	10/27/2008	973.52
54	10/27/2008	973.05
55	10/27/2008	973.28
57	10/27/2008	977.62
58	10/27/2008	973.30
59	10/27/2008	972.28
ESA2S-64	10/27/2008	972.97
64R	10/28/2008	977.38
64S	10/28/2008	965.67
64V	10/28/2008	967.55
64X(N)	10/28/2008	972.53
64X(S)	10/28/2008	965.95
64X(W)	10/28/2008	966.23
95-1	10/28/2008	973.46
95-04R	10/27/2008	974.45
95-5	10/27/2008	973.80
95-07R	10/27/2008	974.65
E2SC-03I	10/30/2007	972.22
E2SC-21	10/27/2008	NA
E2SC-23	10/27/2008	974.47
E2SC-24	10/27/2008	973.40
3-6C-EB-14	10/28/2008	973.31
3-6C-EB-22	10/28/2008	973.35
3-6C-EB-25	10/28/2008	973.68
3-6C-EB-28	10/28/2008	973.48
ES2-01	10/30/2007	972.48
ES2-02A	10/27/2008	973.13
ES2-05	10/27/2008	973.80

# Table 3 Groundwater Elevation Data - Fall 2008 Monitoring Round

		Groundwater Elevation
Well ID	Date	(Feet AMSL <sup>1</sup> )
ES2-06	10/30/2007	972.40
ES2-08	10/27/2008	973.47
ES2-10	10/27/2008	977.03
ES2-11	10/27/2008	973.87
ES2-16	10/27/2008	976.17
ES2-18	10/28/2008	971.34
GMA1-13	10/27/2008	973.50
GMA1-14	10/27/2008	978.39
GMA1-15	10/27/2008	973.34
GMA1-16	10/27/2008	973.62
GMA1-17W	10/27/2008	977.39
GMA1-17E	10/27/2008	977.39
GMA1-19	10/27/2008	973.26
GMA1-21	10/28/2008	973.35
GMA1-22	10/27/2008	973.48
GMA1-23	10/27/2008	973.26
GMA1-24	10/27/2008	973.12
HR-G1-MW-1	10/27/2008	972.94
HR-G1-MW-2	10/27/2008	973.08
HR-G2-MW-1	10/27/2008	972.95
HR-G2-MW-3	10/27/2008	973.25
HR-G2-RW-1	10/27/2008	973.25
HR-G3-MW-1	10/27/2008	976.64
HR-G3-MW-2	10/27/2008	981.96
HR-G3-RW-1	10/27/2008	971.86
HR-J1-MW-1	10/28/2008	973.17
HR-J1-MW-2	10/31/2008	973.70
HR-J1-MW-3	10/28/2008	973.37
HR-J1-RW-1	10/28/2008	973.05
M-R	10/27/2008	978.28
P3	10/27/2008	983.75
PZ-1S	10/27/2008	973.59
PZ-6S	10/27/2008	973.22
RW-1(S)	10/28/2008	969.35
RW-1(X)	10/28/2008	966.98
RW-2(X)	10/28/2008	972.95
RW-3(X)	10/28/2008	970.67
RW-4	10/28/2008	969.39
TMP-1	10/27/2008	973.21
SG-HR-1	10/29/2008	973.73

Groundwater Elevation Data - Fall 2008 Monitoring Round

		Groundwater Elevation
Well ID	Date	(Feet AMSL <sup>1</sup> )
East Street Area 2-North		
05-N	10/31/2008	984.85
11-N	10/31/2008	981.92
14-N	10/31/2008	987.20
16-N	10/31/2008	980.80
17A	10/31/2008	1,017.75
17-N	10/31/2008	981.15
19-N	10/31/2008	981.99
20-N	10/31/2008	982.20
23-N	10/31/2008	981.72
24-N	10/31/2008	982.50
95-20	10/31/2008	996.89
ES1-05	10/29/2008	983.55
ES1-10	10/31/2008	1,019.24
ES1-18	10/31/2008	1,044.11
ES1-20	10/29/2008	987.22
ES1-27R	10/31/2008	1,016.57
F-1	10/31/2008	1,021.25
GMA1-4	10/31/2008	995.71
East Street Area 1-North		
25	10/28/2008	994.08
ESA1N-52	10/28/2008	996.36
60R	10/28/2008	992.95
105	10/28/2008	995.33
106	10/28/2008	995.97
107	10/28/2008	996.49
108A	10/28/2008	997.61
109A	10/28/2008	997.05
118	10/28/2008	995.00
128	10/28/2008	994.00
131	10/28/2008	996.77
140	10/28/2008	992.59
ES1-08	10/28/2008	994.70
North Caisson	10/28/2008	979.69
East Street Area 1-South		
31R	10/28/2008	991.24
ESA1S-33	10/28/2008	997.40
34	10/28/2008	994.95
35	10/28/2008	994.75
37R	10/28/2008	979.09
45	10/28/2008	993.75
46	10/28/2008	NA
72	10/28/2008	993.30

Groundwater Elevation Data - Fall 2008 Monitoring Round

		Groundwater Elevation
Well ID	Date	(Feet AMSL <sup>1</sup> )
East Street Area 1-South	(cont.)	
72R	10/28/2008	991.97
75	10/28/2008	993.52
76	10/28/2008	993.10
78	10/28/2008	995.76
80	10/28/2008	985.25
90	10/28/2008	982.65
139R	10/28/2008	977.46
ES1-13	10/28/2008	993.46
ES1-18	10/23/2008	1,041.08
ES1-23R	10/28/2008	987.63
GMA1-6	10/28/2008	992.39
GMA1-7	10/28/2008	976.17
GMA1-7 GMA1-18	10/28/2008	992.19
South Caisson	10/28/2008	988.01
Lyman Street Area	10/20/2000	300.01
GMA1-5	10/28/2008	971.77
B-2	10/28/2008	971.90
<u>Б-2</u> Е-4	10/28/2008	973.25
E-4	10/31/2007	973.25
EPA-1	10/28/2008	971.79
LS-12	10/27/2008	971.38
LS-24	10/27/2008	969.15
LS-29	10/31/2007	969.97
LS-30	10/27/2008	970.94
LS-31	10/27/2008	971.13
LS-38	10/28/2008	971.17
LS-44	10/31/2007	970.66
LSSC-07	10/29/2007	971.56
LSSC-08I	10/28/2008	971.88
LSSC-16I	10/31/2007	971.23
LSSC-16S	10/27/2008	NA
LSSC-18	10/27/2008	969.51
LSSC-33	10/31/2007	970.96
LSSC-34I	10/27/2008	969.99
MW-4R	10/27/2008	972.15
MW-6R	10/28/2008	973.72
RW-1(R)	10/28/2008	967.57
RW-2	10/28/2008	968.41
BM-2A	10/28/2008	971.27

Groundwater Elevation Data - Fall 2008 Monitoring Round

Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report For Fall 2008 General Electric Company - Pittsfield, Massachusetts

Well ID	Date	Groundwater Elevation (Feet AMSL <sup>1</sup> )
Newell Street Area I	Pulo	
FW-16R	10/29/2008	974.11
IA-9R	10/29/2008	974.06
MM-1	10/29/2008	976.06
Newell Street Area II		
GMA1-8	10/27/2008	972.68
GMA1-9	10/27/2008	973.29
GMA1-25	10/27/2008	973.82
GMA1-26	10/27/2008	973.46
GMA1-27	10/27/2008	974.91
GMA1-28	10/27/2008	973.17
MW-1D	10/30/2007	972.22
MW-1S	10/27/2008	972.68
N2SC-01I	10/27/2008	973.29
N2SC-02	10/27/2008	973.46
NS-20	10/27/2008	978.79
NS-37	10/27/2008	973.02
Silver Lake Area		-
SLGW-01S	10/27/2008	977.10
SLGW-05S	10/27/2008	977.13
SLGW-06S	10/27/2008	976.92

1. AMSL - Above Mean Sea Level

2 NA - Indicated well was unable to be monitored during the Fall 2008 Groundwater Monitoring Event.

# Table 4Field Parameter Measurements - Fall 2008

Well ID	Turbidity (NTU)	Temperature (Degrees Celsius)	рН (Standard Units)	Specific Conductivity (mS/cm)	Oxidation- Reduction Potential (mV)	Dissolved Oxygen (mg/L)
RAA 2 - 30s CON	IPLEX					
GMA1-3	4.0	15.11	7.01	1.555	-8.9	0.42
ES2-19	NA	14.31	7.65	0.464	71.7	7.87
RAA 4 - EAST ST	REET AREA 2-SO	UTH		-	-	-
95-25	3	13.72	6.63	0.495	-163.7	1.92
RAA 5 - EAST ST	REET AREA 2-NO	RTH				•
A7-R	16	8.07	11.31	3.720	-227.3	15.32
17A	215	16.58	7.71	1.460	95.3	8.36
95-20	1	15.94	7.16	0.895	35.0	6.18
ES1-10	2	19.98	7.41	1.265	-185.3	1.41
ES1-18	27	13.65	7.07	6.069	-62.7	1.12
F-1	7.4	20.29	7.74	0.639	-167.7	5.89
RAA 12 - LYMAN	STREET AREA					
LSSC-16S	8	13.50	6.82	1.273	12.0	1.90
LS-MW-3R	6	14.03	6.68	-0.841	-182.7	2.49
RAA - NEWELL S	STREET AREA I			-	-	-
MM-1	40	14.47	7.00	0.501	-44.4	0.52
RAA 13 - NEWEL	L STREET AREA I	I				
GMA1-25	3	12.24	7.37	0.583	-177.4	0.67
GMA1-27	10	12.74	7.02	0.653	-54.6	0.14

# Table 4Field Parameter Measurements - Fall 2008

### Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report For Fall 2008 General Electric Company - Pittsfield, Massachusetts

Well ID	Turbidity (NTU)	Temperature (Degrees Celsius)	pH (Standard Units)	Specific Conductivity (mS/cm)	Oxidation- Reduction Potential (mV)	Dissolved Oxygen (mg/L)		
RAA 18 - EAST ST	RAA 18 - EAST STREET AREA 1-SOUTH							
31R	17	10.8	7.28	0.845	56.1	6.99		
37R	13	8.70	7.24	0.993	-9.1	0.65		

Notes:

1. Measurements collected during Fall 2008 groundwater sampling event.

2. Well parameters were generally monitored continuously during purging by low-flow techniques. Final parameter readings are presented.

 The turbidity meter at well GMA1-3malfuncted just prior to sampling. Prior to the devices malfuction, the well's turbidity was stable at approximately 4 NTU.

5. NTU - Nephelometric Turbidity Units

6. mS/cm - Millisiemens per centimeter

7. mV - Millivolts

8. mg/L - Milligrams per liter (ppm)

#### Table 5 Comparison of Groundwater Analytical Results to MCP Method 1 GW-2 Standards

Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Location ID:		30s Co	omplex	East St. Area 1 - South		
Parameter	Sample ID: Date Collected:		ES2-19 10/23/08	GMA1-3 10/16/08	31R 10/30/08	37R 10/16/08
Volatile Organ						
Methylene Chlo	oride	10	NA	NA	NA	NA
Total VOCs		5	NA	NA	NA	NA
PCBs-Filtered		·				
None Detected						
Semivolatile C	Drganics	·				
bis(2-Ethylhexy	/l)phthalate	Not Listed	NA	NA	NA	NA

	Location ID:		East St. Area 2 - North			
Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	17A 10/16/08	95-20 10/15/08	A7-R 12/11/08	ES1-10 10/15/08
Volatile Organi	ics					
Methylene Chlo	ride	10	NA	NA	NA	NA
Total VOCs		5	NA	NA	NA	NA
PCBs-Filtered		· · · · ·				
None Detected						
Semivolatile O	rganics					
bis(2-Ethylhexyl	)phthalate	Not Listed	NA	NA	NA	NA

	Location ID:		East St. Area 2 - North		East St. Area 2 - South	Lyman Street Area
_	Sample ID:	Method 1 GW-2	ES1-18	F-1	95-25	LSSC-16S
Parameter	Date Collected:	Standards	10/23/08	10/15/08	10/16/08	10/16/08
Volatile Organ	ics					
Methylene Chlo	oride	10	NA	NA	NA	NA
Total VOCs		5	NA	NA	NA	NA
PCBs-Filtered				•		•
None Detected						
Semivolatile O	rganics				·	
bis(2-Ethylhexy	l)phthalate	Not Listed	NA	NA	NA	NA

	Location ID:		Lyman Street Area	Newell St. Area I	Newell St. Area II		
_	Sample ID:	Method 1 GW-2	MW-3R	MM-1	GMA1-25	GMA1-27	
Parameter	Date Collected:	Standards	10/16/08	10/24/08	10/17/08	10/17/08	
Volatile Organ	ics						
Methylene Chlo	oride	10	NA	NA	0.00024 J [0.00053 J]	0.00061 J	
Total VOCs		5	NA	NA	0.00024 J [0.00053 J]	0.00061 J	
PCBs-Filtered							
None Detected							
Semivolatile O	rganics						
bis(2-Ethylhexy	l)phthalate	Not Listed	NA	NA	0.00099 J [ND(0.0051)]	ND(0.0051)	

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered) and semivolatiles.

2. NA - Not Analyzed.

3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.

4.

Field duplicate sample results are presented in brackets. Only volatile, semivolatile and PCBs constituents detected in at least one sample are summarized. 5.

6. 7. Total VOCs are being compared to the notification level in the SOW of 5 ppm, as there is no GW-2 standard for Total VOCs.

-- Indicates that all constituents for the parameter group were not detected.

#### Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)

J - Indicates that the associated numerical value is an estimated concentration.

R - Data was rejected due to a deficiency in the data generation process.

#### Table 6 Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

#### Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

	Location ID:		Newell St. Area II			
_	Sample ID:		GMA1-25	GMA1-27		
Parameter	Date Collected:	Standards	10/17/08	10/17/08		
Volatile Organics						
Methylene Chloride		50	0.00024 J [0.00053 J]	0.00061 J		
PCBs-Filtered						
None Detected						
Semivolatile Organics						
bis(2-Ethylhexyl)phthalate	е	50	0.00099 J [ND(0.0051)]	ND(0.0051)		

Notes:

- 1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered) and semivolatiles.
- 2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30, 2007)
- 3. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 4. Only those constituents detected in one or more samples are summarized.
- 5. Field duplicate sample results are presented in brackets.
- 6. -- Indicates that all constituents for the parameter group were not detected.

#### Data Qualifiers:

- <u>Organics (volatiles, PCBs, semivolatiles)</u> J Indicates that the associated numerical value is an estimated concentration.
  - R Data was rejected due to a deficiency in the data generation process.

#### Table 7 Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

	Location ID:		30s C	omplex	East St. Area	a 1 - South
_	Sample ID:	MCP UCL	ES2-19	GMA1-3	31R	37R
Parameter	Date Collected:	for GroundWater	10/23/08	10/16/08	10/30/08	10/16/08
Volatile Organic	cs					
Methylene Chlor	ide	100	NA	NA	NA	NA
PCBs-Filtered						
None Detected						
Semivolatile Or	ganics					
bis(2-Ethylhexyl)	phthalate	100	NA	NA	NA	NA

	Location ID:			East St. A	rea 2 - North	
Parameter	Sample ID: Date Collected:	MCP UCL for GroundWater	17A 10/16/08	95-20 10/15/08	A7-R 12/11/08	ES1-10 10/15/08
Volatile Organ	nics					
Methylene Chlo	oride	100	NA	NA	NA	NA
PCBs-Filtered						
None Detected						
Semivolatile C	Drganics					
bis(2-Ethylhexy	/l)phthalate	100	NA	NA	NA	NA

	Location ID:		East St. Ar	ea 2 - North	East St. Area 2 - South	Lyman Street Area
	Sample ID:	MCP UCL	ES1-18	F-1	95-25	LSSC-16S
Parameter	Date Collected:	for GroundWater	10/23/08	10/15/08	10/16/08	10/16/08
Volatile Organ	lics					
Methylene Chlo	oride	100	NA	NA	NA	NA
PCBs-Filtered						
None Detected						
Semivolatile O	Drganics					
bis(2-Ethylhexy	/l)phthalate	100	NA	NA	NA	NA

	Location ID:		Lyman Street Area	Newell St. Area I	Newell St. A	Area II
	Sample ID:	MCP UCL	MW-3R	MM-1	GMA1-25	GMA1-27
Parameter	Date Collected:	for GroundWater	10/16/08	10/24/08	10/17/08	10/17/08
Volatile Organi	ics					
Methylene Chlo	oride	100	NA	NA	0.00024 J [0.00053 J]	0.00061 J
PCBs-Filtered						
None Detected						
Semivolatile O	rganics					
bis(2-Ethylhexy	l)phthalate	100	NA	NA	0.00099 J [ND(0.0051)]	ND(0.0051)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered) and semivolatiles. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30, 2007). 2.

3. NA - Not Analyzed.

4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.

5. Only those constituents detected in one or more samples are summarized.

6. Field duplicate sample results are presented in brackets.

7. -- Indicates that all constituents for the parameter group were not detected.

#### Data Qualifiers:

 $\frac{Organics \ (volatiles, PCBs, semivolatiles)}{J-Indicates that the associated numerical value is an estimated concentration.}$ 

R - Data was rejected due to a deficiency in the data generation process.

# Table 8 Proposed Spring 2009 Interim Groundwater Quality Monitoring Program

Well Number	Monitoring Well Usage	Analysis	Basis for Inclusion or Exclusion/Comments
RAA 2 - 30s COMPL	_EX		
ES2-19	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
GMA1-3	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
RAA 4 - EAST STRE	EET AREA 2-SOUTH		
95-25	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
RAA 5 - EAST STRE	EET AREA 2-NORTH		
17A	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
95-20	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
A7	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
ES1-10	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
ES1-18	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
F-1	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
GMA1-4	GW-2 Sentinel (Conditional)	PCB	First of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard, if depth to groundwater is less than 15 feet and if an adequate volume of water is present in the well.

# Table 8 Proposed Spring 2009 Interim Groundwater Quality Monitoring Program

### Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report For Fall 2008 General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Well Usage	Analysis	Basis for Inclusion or Exclusion/Comments
RAA 12 - LYMAN ST	FREET AREA		
LSSC-16S	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
MW-3R	GW-2 Sentinel	РСВ	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
RAA 13 - NEWELL S	STREET AREA II		
GMA1-25	GW-2 Sentinel/GW-3 Perimeter (Upgradient)	VOC/SVOC/PCB	Fourth of four rounds of sampling and analysis to be conducted as required by EPA.
GMA1-27	GW-2 Sentinel/GW-3 Perimeter (Upgradient)	VOC/SVOC/PCB	Fourth of four rounds of sampling and analysis to be conducted as required by EPA.
RAA 14 - NEWELL S	STREET AREA I		
MM-1	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
RAA 18 - EAST STR	EET AREA 1 SOUTH		
31R	GW-2 Sentinel	РСВ	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
37R	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.

NOTES:

1. The wells listed above are sampled on a semi-annual as part of the interim groundwater quality monitoring program at GMA 1.

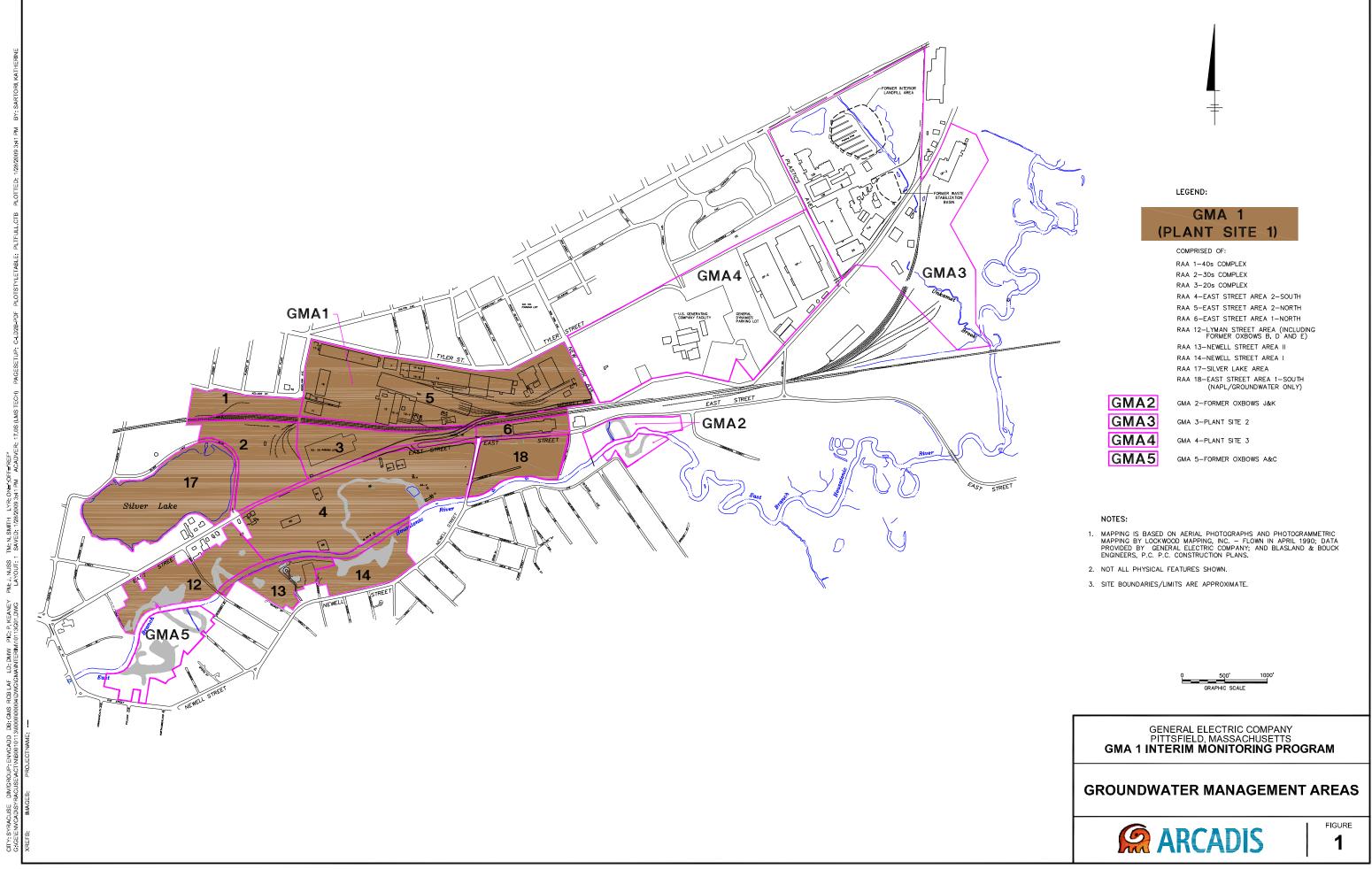
2. The wells will be sampled for the listed parameters on a semi-annual basis and may be proposed to be removed from the interim groundwater quality monitoring program after the fourth data set is collected.

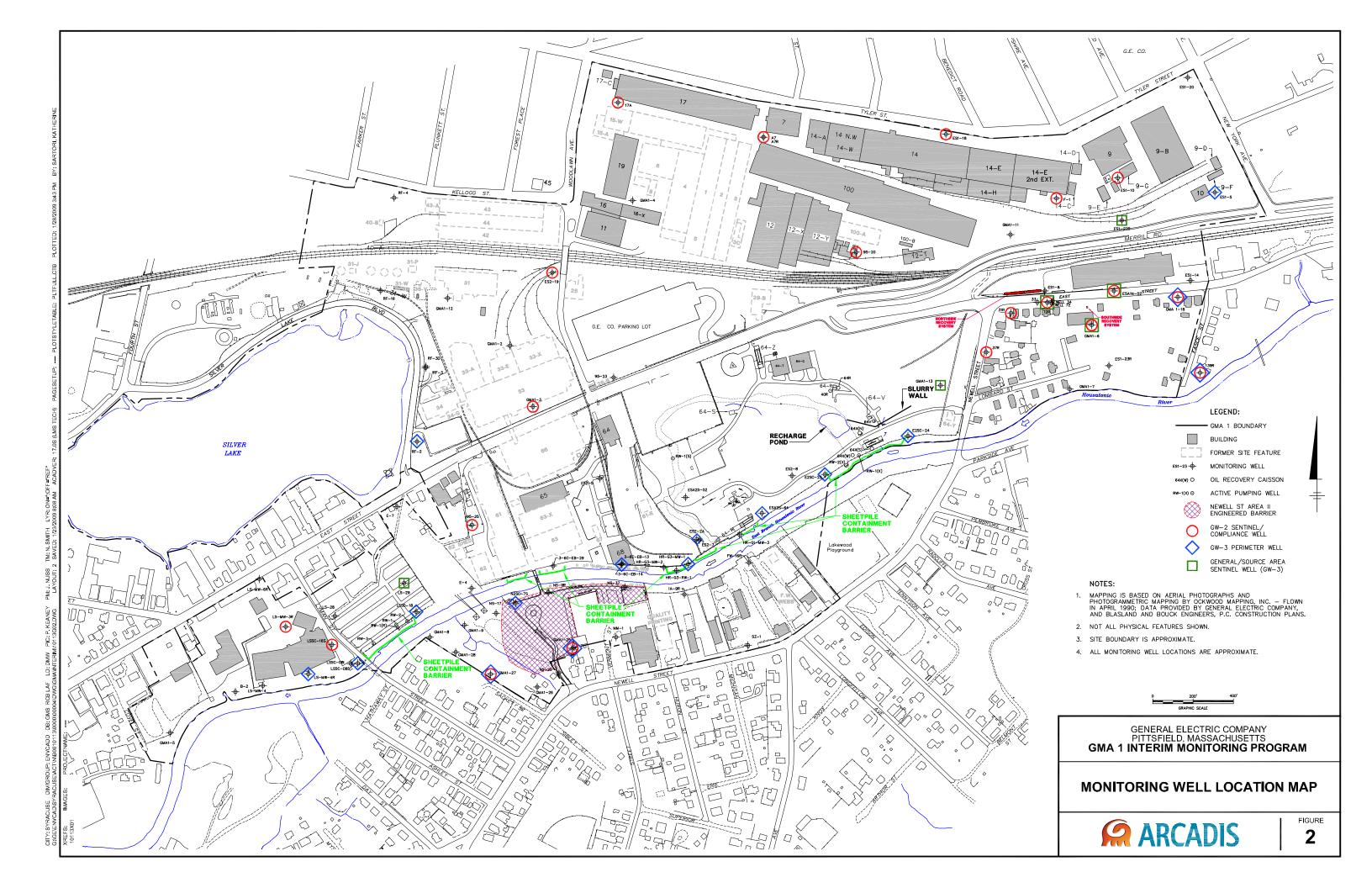
3. All analyses for PCBs will be performed on filtered samples only.

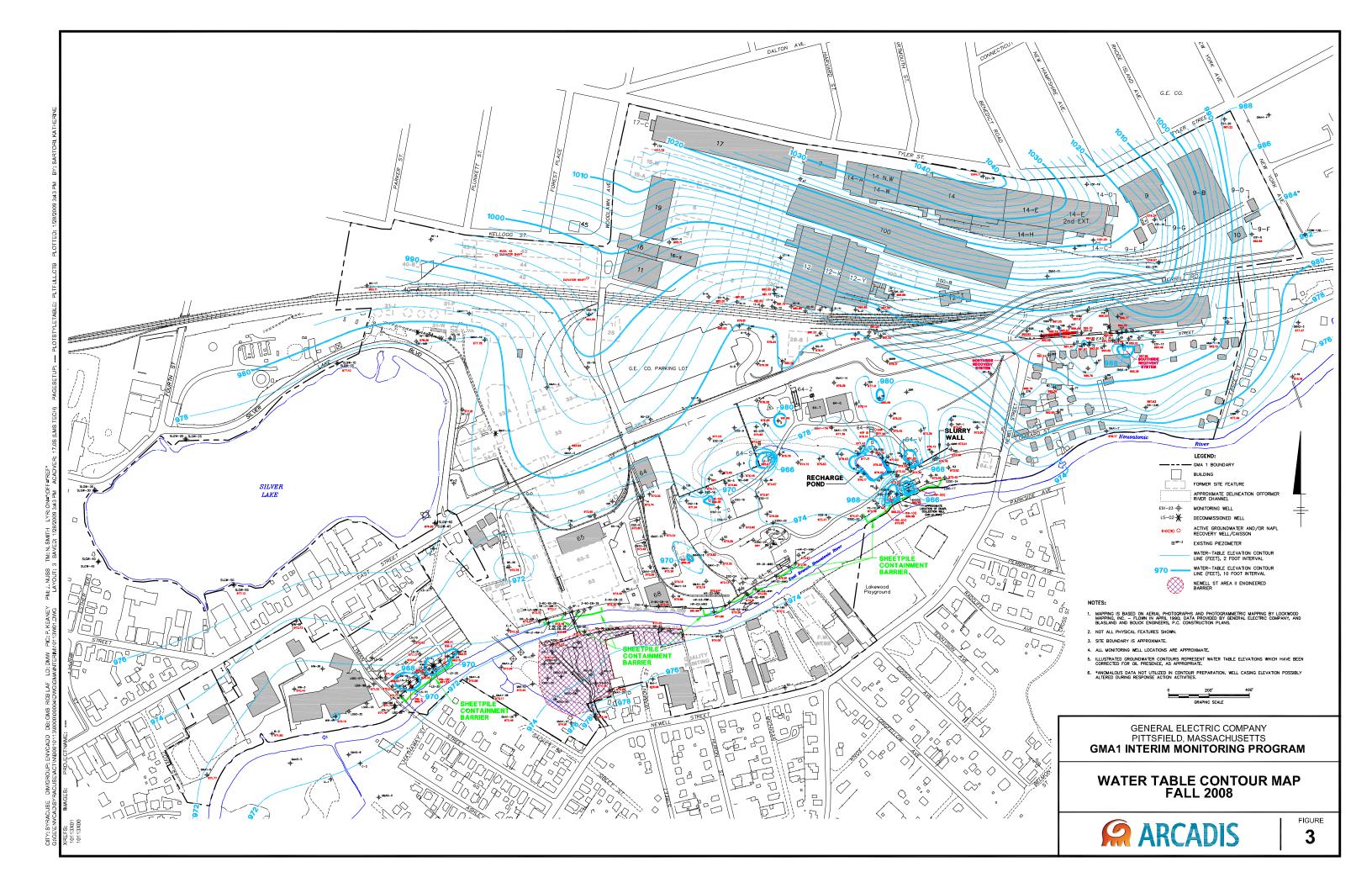
4. Additional wells included in the interim monitoring program for annual groundwater quality sampling are not included in this table since they will not be sampled in spring 2009. The sampling schedule for those wells alternates between the spring and fall seasons each year, with the next sampling round to be conducted in fall 2009.

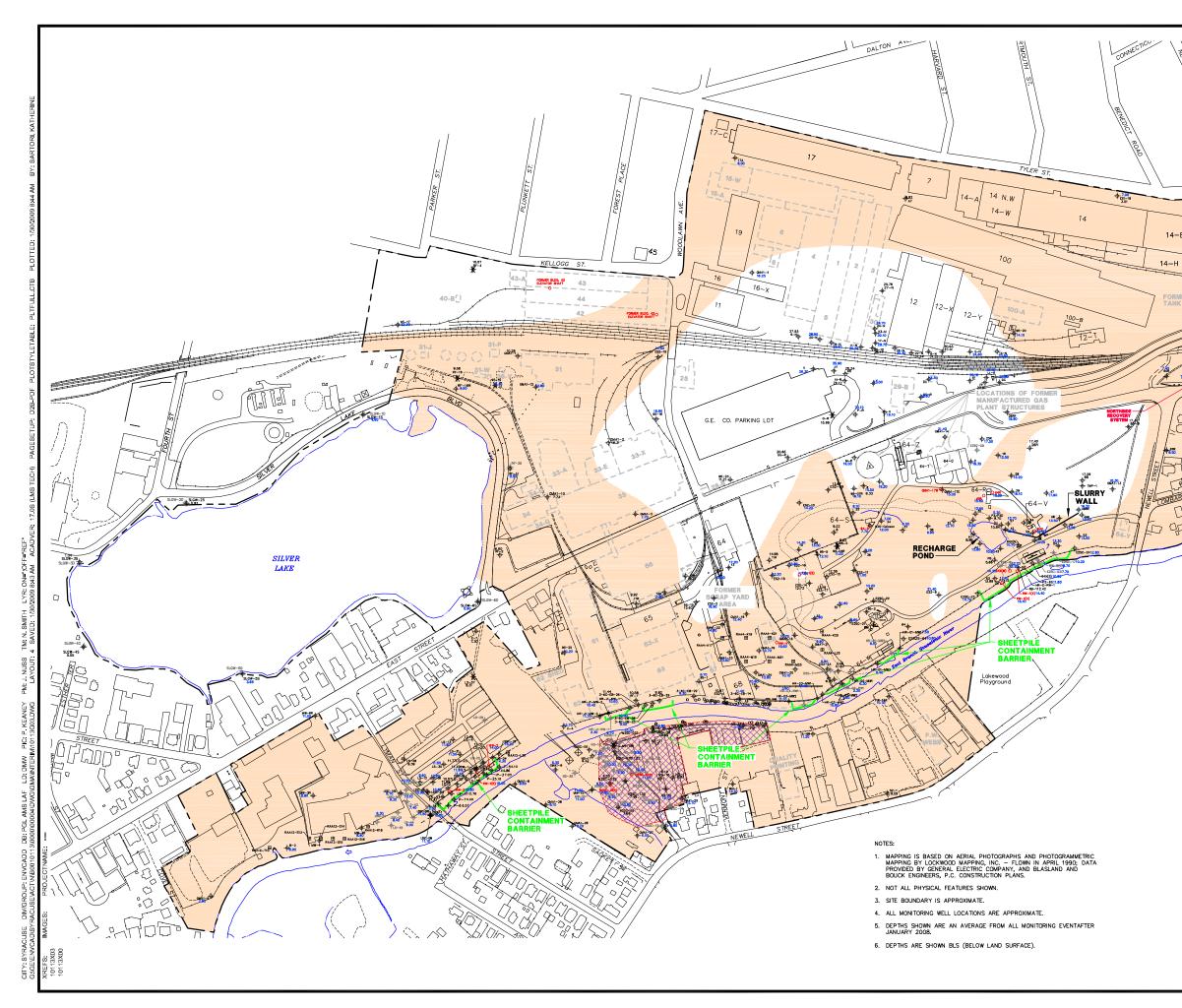
# ARCADIS

Figures





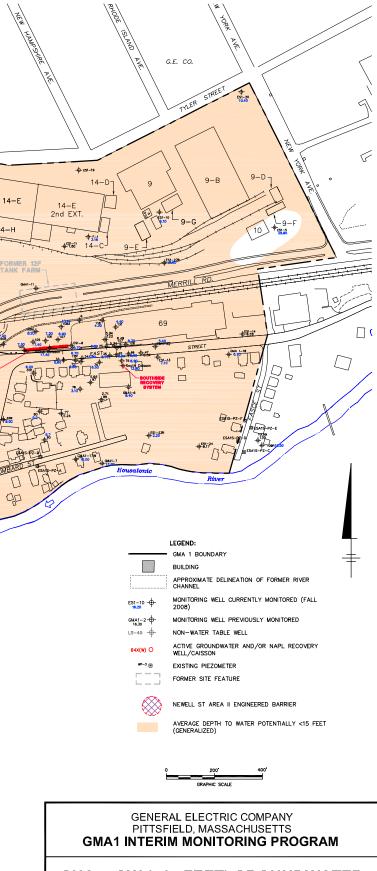


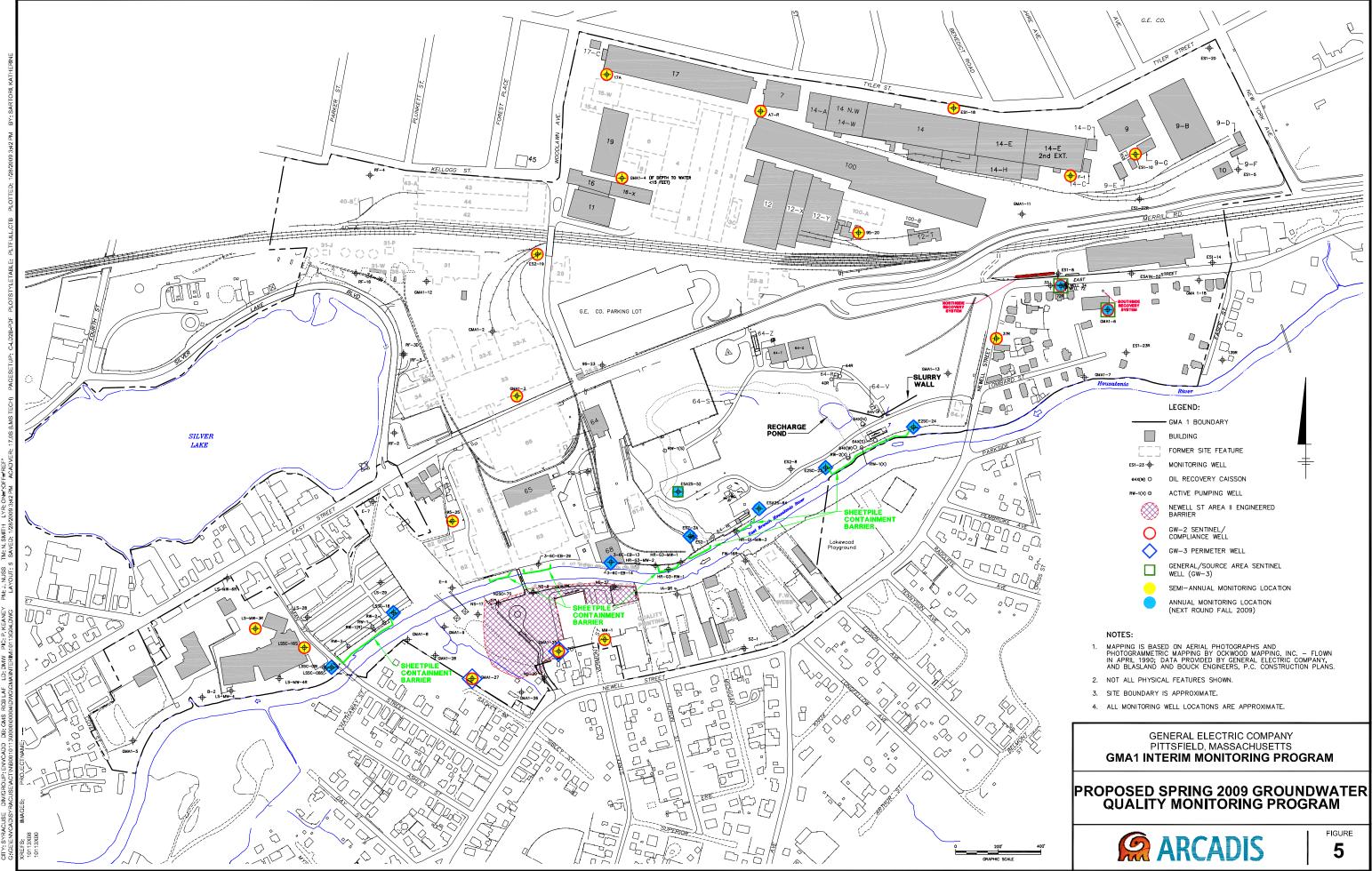






# SHALLOW (<15 FEET) GROUNDWATER AREAS





# ARCADIS

Appendices

# ARCADIS

Appendix A

Field Sampling Data

# Table A-1 East Branch Housatonic River at Coltsville, MA River Discharge for Fall 2008

## Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report For Fall 2008 General Electric Company - Pittsfield Massachusetts

Date	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Comments
15-Oct	47	35	Groundwater Samples Collected
16-Oct	40	33	Groundwater Samples Collected
17-Oct	42	37	Groundwater Samples Collected
18-Oct	40	35	No Samples Collected
19-Oct	38	32	No Samples Collected
20-Oct	34	30	No Samples Collected
21-Oct	38	31	No Samples Collected
22-Oct	58	35	No Samples Collected
23-Oct	61	54	Groundwater Samples Collected
24-Oct	61	56	Groundwater Samples Collected
25-Oct	243	56	No Samples Collected
26-Oct	552	266	No Samples Collected
27-Oct	355	215	No Samples Collected
28-Oct	496	215	Groundwater Samples Collected
29-Oct	478	394	No Samples Collected
30-Oct	398	266	Groundwater Samples Collected
11-Dec	439	378	Groundwater Samples Collected

NOTES:

- 1. Fall 2008 groundwater sampling event at GMA 1 was conducted between October 15 30, 2008 and on December 11, 2008.
- 2. Groundwater samples were collected on the dates listed above.

# Table A-2Housatonic River Elevation at Lyman and Newell Street Bridges

## Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report For Fall 2008 General Electric Company - Pittsfield Massachusetts

Date	Lyman St Bridge Elevation (ft)	Newell St Bridge Elevation (ft)
15-Oct	16.46	19.75
16-Oct	16.53	19.70
17-Oct	NA	NA
23-Oct	16.30	19.55
24-Oct	NA	NA
28-Oct	15.05	17.74
30-Oct	14.95	NA
11-Dec	NA	NA

NOTES:

- 1. Fall 2008 groundwater sampling event at GMA 1 was conducted between October 15 30, 2008 and on December 11, 2008.
- 2. Groundwater samples were collected in the vicinity of the river monitoring points on the dates listed above.
- 3. NA River elevation data not available.

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5	Contain Interval D	200m 5-1		rom <u>Grou</u>	1		MS/A	ED Collorto	<u> </u>
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Vot	inter of Water in	Wes 1-49						that Parameters	Colorda
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TOC: Top	of Culler (Protect					$(\boldsymbol{\mathcal{X}})$		<b>14 (Classofrad)</b>	(~)
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ſ				14-1	Samples obje	rectord by same r	noticid an overclistic	on? ON (spe	<u>n ⊂</u> ⊐¶¥)
,				×51-53	Samples cold	Hac	hered an overcustic	2017 (3pm	<u>, c</u>
				<u>×51-53</u> #2	Samples colle	Here	notiod an avacuation	Turkidin	neter
Титин	Water Qumity Pump Rate	Mellar Type(s) / Total Gallone			Demples cole	He.	hothod an overlatic h 2/00 P Turbidity	7 N (3)	n-ter
Пли	Water Quality Pump Rate (L/min.)	Mainer Type(s) / Total Gallons Removed	Serial Numbers: Wester	<u>/51-53</u> #2 (Celebra) (3%)*	DH DH	Alec.	Turbidity	$\frac{7n - \zeta_{1,2}}{00} = \frac{1}{100}$	
Time 14:40	Water Quelity Pump Rates (Units) 100ml	Motor Type(s) / Total Gallons Ramoved O-13	Serial Numbers: Weter Lavel	(Celulus)	56 MP3 pH	.30. Cond. (mStam) (3%)*	1000 - 2100 P	74-6/1/10	
Thm. 14:40 14:50	Water Quelity Pump Rates (Jmin) 100ml	Mainer Type(s) / Total Gallons Removed	Serial Numbers: Lavel (17 TIC)	(Cielekie) [376]*	<u>рн</u> (0.1 unim) <sup>с</sup>	Alec.	6 2/00 P Turbidity (NTU) (10% ~ 1 NTUF / 8 4	$\frac{7n - \zeta_{1,2}}{00} = \frac{1}{100}$	
Thm. 14:40 14:50	Water Quelity Pump Rates (Jmin) 100ml	Meter Type(s)/ Total Gallons Removed O-13 O-40	Serial Numbers: Level (17 Tic) (2 · 8 (c) 7.0 8	(Celekas) [3%]*	56 MP3 pH		1000 - 2100 P	7 + 7 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	0RP (MV) [10 mV]
The 14:40 14:50 15:05	Water Quality Pump Rates (Umin.) 100 m 1 100 m 1	Moter Type(s)/ Total Gallons Removed O-13 O-40 O+79	Social Numbers: Vester Lovel (RTIC) 6.86 7.08 7.08 7.20	(Celekas) [3%]*	<u>рн</u> (0.1 unim) <sup>с</sup>		b 2/00 P Turbidity (NTU) (10% ≪ 1 NTUP / 8.4 2.35	7 + 7 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	0RP (mV) [10 mV]
Tree 14:40 14:50 15:05 15:15	Veren Gumily Pump Rates (Umin.) 100 ml 100 ml 100 ml	Meter Type(s)/ Total Gallons Removed O-13 O-40 O-79 J-06	Serial Numbers: Level (8 TIC) 6.8 G 7.08 7.08 7.20 7.28	(Celekas) [3%]*	рн (0.1 улів)*		L 2/00 P Turbidiky (NTU) (10% ~ 1 NTUP / 8 4 2 3 5 / 6 3	7 + 7 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	0RP (MV) [10 mV]
The 14:40 14:50 15:05 15:15 15:35	Water Gunity Pump Rate (Umin) 100m1 100m1 100m1 100m1 100m1	Mater Type(a)/ Total Gastone Ramoved 0-13 0.40 0.79 1.06 1.59	Serial Numbers: Level (8 TIC) 6.8 G 7.08 7.08 7.20 7.28	(Cataban) (3%)* 	рн (0.1 unimp —		$\frac{h 2/00P}{100 \text{ More links}}$ $\frac{h 2/00P}{(NTU)}$ $\frac{100 \text{ More links}}{100 \text{ More links}}$ $\frac{100 \text{ More links}}{100 \text{ More links}}$ $\frac{100 \text{ More links}}{100 \text{ More links}}$	7 + 7 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	0RP (MV) [10 mV]
14:40 14:50 15:05 15:15 15:35	Weber Quality Pump Rese (Jmin) 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1	Meter Type(s)/ Total Galaria Removed 0-13 0.40 0.79 1.06 1.59	Serial Numbers: Longi (19 775) 6.86 7.08 7.28 7.28 7.36	(Cataban) (3%)* 	рн (0.1 unimp —		$\frac{h 2/00P}{Furbidity}$ (NTU) (10% $\propto$ 1 NTUP / B 4 2 35 1 6 3 1 2 5 6 9	7 + 7 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	0RP (MV) [10 mV]
The 14:40 14:50 15:05 15:15 15:35 15:45 5:55	Water Gunity Pump Rates (Jobm) 100m1 100m1 100m1 100m1 100m1 100m1 100m1 100m1 100m1	Meter Type(s)/ Total Gallons Removed 0-13 0.40 0.79 1.06 1.59 1.85 2.11	Social Numbers: Level (A TIC) 6.86 7.08 7.08 7.20 7.20 7.20 7.20 7.26 7.12	(Cataban) (3%)* 	рн (0.1 unimp —		$\frac{h 2/00P}{100 \text{ More links}}$ $\frac{h 2/00P}{(NTU)}$ $\frac{100 \text{ More links}}{100 \text{ More links}}$ $\frac{100 \text{ More links}}{100 \text{ More links}}$ $\frac{100 \text{ More links}}{100 \text{ More links}}$	7 + 7 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	0RP (MV) [10 mV]
The 14:40 14:50 15:05 15:15 15:35 15:45 5:55	Water Gunity Pump Rates (Jobm) 100m1 100m1 100m1 100m1 100m1 100m1 100m1 100m1 100m1	Meter Type(s)/ Total Gallons Removed 0-13 0.40 0.79 1.06 1.59 1.85 2.11	Social Numbers: Level (A TIC) 6.86 7.08 7.08 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20	(Catabas) (3%)*	рн (0.1 unimp —			7 + 7 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	0RP (MV) [10 mV]
14:40 14:40 15:05 15:15 15:35 15:45 5:55 5:55 6:05	Weber Quality Pump Rese (Unite) 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1	Mater Type(a)/ Total Gastone Ramoved 0-13 0.40 0.79 1.06 1.59 1.85 2.11 2.28	Social Number: Level (1775) 6.86 7.08 7.20 7.20 7.20 7.28 7.36 7.12 7.12 7.15 7.08	(Cataban) (326)*				2 (2) N (spe 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Three 141:40 141:50 15:05 15:15 15:35 15:45 5:45 5:45 6:05 The maddata	Water Gunity Pump Rate (Umin) 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1	Meter Type(a)/ Total Gastone Removed 0-13 0.40 0.79 1.06 1.59 1.85 2.11 2.38 h field garacticle	Social Numbers: Level (PTIC) 6.86 7.08 7.08 7.28 7.28 7.28 7.36 7.12 7.12 7.15 7.08	(Containe) (326)*	pH [0.1 unimp [0.1 unimp] [0.1 unimp [0.1 unimp] [0.1 unimp]			2 (2) N (spe 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0RP (MV) [10 mV]
Three 141:40 141:50 15:05 15:15 15:35 15:45 5:45 5:45 6:05 The maddata	Water Gunity Pump Rate (Umin) 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1	Meter Type(a)/ Total Gastone Removed 0-13 0.40 0.79 1.06 1.59 1.85 2.11 2.38 h field garacticle	Social Numbers: Level (PTIC) 6.86 7.08 7.08 7.28 7.28 7.28 7.36 7.12 7.12 7.15 7.08	(Containe) (326)*	pH [0.1 unimp [0.1 unimp] [0.1 unimp [0.1 unimp] [0.1 unimp]			2 (2) N (spe 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Three 141:40 141:50 15:05 15:15 15:35 15:45 5:45 5:45 6:05 The maddata	Water Gunity Pump Rate (Umin) 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1	Meter Type(a)/ Total Gastone Removed 0-13 0.40 0.79 1.06 1.59 1.85 2.11 2.38 h field garacticle	Social Numbers: Level (PTIC) 6.86 7.08 7.08 7.28 7.28 7.28 7.36 7.12 7.12 7.15 7.08	(Containe) (326)*	pH [0.1 unimp [0.1 unimp] [0.1 unimp [0.1 unimp] [0.1 unimp]			2 (2) N (spe 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Three 141:40 141:50 15:05 15:15 15:35 15:45 5:45 5:45 6:05 The maddata	Water Gunity Pump Rate (Umin) 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1 100 m1	Meter Type(a)/ Total Gastone Removed 0-13 0.40 0.79 1.06 1.59 1.85 2.11 2.38 h field garacticle	Social Numbers: Level (PTIC) 6.86 7.08 7.08 7.28 7.28 7.28 7.36 7.12 7.12 7.15 7.08	(Containe) (326)*	pH [0.1 unimp [0.1 unimp] [0.1 unimp [0.1 unimp] [0.1 unimp]			2 (2) N (spe 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
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Three 141:40 141:50 15:05 15:15 15:35 15:35 15:45 5:55 15:45 1	Weber Gunity Pump Rate (Jonin) JOOMI JO	Meter Type(a)/ Total Gastone Removed 0-13 0.40 0.79 1.06 1.59 1.85 2.11 2.38 h field garacticle	Social Numbers: Level (PTIC) 6.86 7.08 7.08 7.28 7.28 7.28 7.36 7.12 7.12 7.15 7.08	(Containe) (326)*	pH [0.1 unimp [0.1 unimp] [0.1 unimp [0.1 unimp] [0.1 unimp]			2 (2) N (spe 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Three 141:40 141:50 15:05 15:15 15:35 15:45 5:45 5:45 6:05 The maddata	Weber Gunity Pump Rate (Jonin) JOOMI JO	Meter Type(a)/ Total Gastone Removed 0-13 0.40 0.79 1.06 1.59 1.85 2.11 2.38 h field garacticle	Social Numbers: Level (PTIC) 6.86 7.08 7.08 7.28 7.28 7.28 7.36 7.12 7.12 7.15 7.08	(Containe) (326)*        -	pH [0.1 unimp [0.1 unimp] [0.1 unimp [0.1 unimp] [0.1 unimp]	Hec. 3D. Cond. (mSkam) (3%) 		2 (2) N (spe 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	

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Well No. A7-R

Site/GMA Name <u>GE Pitts Fill /GMA-1</u> Sampling Personnel <u>GAR</u> Date 12

08 Weather Over styrain, slant, 20-300F

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WELL INFORMATION - See Page 1

(Umin.) 100 m] 100 m] 100 m] 100 m] 100 m] 100 m]	Removed 2.51 2.64 2.77 2.91	(A TIC) 7.10 7.10 7.10 7.10 7.10	(3%) <sup>1</sup> 7.12 7.63 7.75	(0.1 units) 11-16 11.25	(3%)* 3.667	[10% or 1 NTU]	[10% or 0.1 mg/]" Z1-4D	[10 mV] <sup>-</sup> -223.
100 ml 100 ml 200 ml 100 ml	2.64 2.77 2.91	7.10 7.10	7.63			<i>(</i> <b>)</b>	61.40	-222
100 m1 200 m1 100 m1	2-77 2.91	7.10		11+43		49		
200 m   100 m	2.91			11.33	3.692 3.704	43	18.30	-227.
		( <b>1</b> 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.86	11.36	3.717	39	17.00	-228.
rouml	3.04	7-10	7.87	11.37	3.728	34	16.40	-220.
	3-17	7.10	7.91	11.37	3.740	28		-228.
100 ml	3.30							-228.
		7.00		· · · · · · · · · · · · · · · · · · ·				-229.
00m]	3.57			4				-229.
							15-44	-228.
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each field parameter (three consecutive readings collected at 3- to Sminute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS <u>\* Note: Checked pH with pH strip get between 10+11</u> <u>All parameters checked ont when re-sulibrate</u> <u>the next day (12/12/08). VSI Meter was also calibra</u> <u>the day of sampling (2111/08)</u> it suter

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	oon Interval Dep			om <u>Ground</u>			Split Sample I		
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	e of Water in W					( )	VO	Ca (Ski, šet)	(
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Time /5:05-	Water Removed hid Well Go Dry? Water Quality M Pump Rate (L/min.) 250m)	<u>O.69</u> Y N Aetor Type(s)/: Total Gallons Removed O. 33	Serial Numbers Water Level (ft TIC)	Temp. (Cetelus) [3%]* / Y - 3 /	Pump Type: Samples colle 56 MP pH [0.1 units]* 7.6 S	<u>Seo</u> <u>F</u> scted by same m <u>J</u> <u>Have</u> <u>(mStem)</u> <u>(3%)*</u> <u>O. 46 4</u>	h mp z ethod as evacuatic $h z_{00} p$ Turbidity (NTU) [10% or 1 NTUP 2999	011? (♥ N (speci 2 7 L	γ) · ,
Time /5:05 The stabilizatio	Water Removed hid Well Go Dry? Water Quality A Pump Rate (L/min.) 2.50m)	Ø.69.       Y     N   Aetor Type(s) /:       Total       Gailons       Removed       Ø.33   In field parameters	Verial Numbers Water Level (ft TIC) 28.87	Temp. (Cetelus) [3%]* / Y - 3 /	Pump Type: Samples colle 56 MP pH [0.1 units]* 7.6 S	<u>Seo</u> <u>F</u> scted by same m <u>J</u> <u>Have</u> <u>(mStem)</u> <u>(3%)*</u> <u>O. 46 4</u>	h mp z ethod as evacuatic $h z_{00} p$ Turbidity (NTU) [10% or 1 NTUP 2999	011? (♥ N (speci 2 7 L	γ) · ,
Time /5:05 The stabilizatio	Water Removed hid Well Go Dry? Water Quality M Pump Rate (L/min.) 250m)	Ø.69.       Y     N   Aetor Type(s) /:       Total       Gailons       Removed       Ø.33   In field parameters	Verial Numbers Water Level (ft TIC) 28.87	Temp. (Cetelus) [3%]* / Y - 3 /	Pump Type: Samples colle 56 MP pH [0.1 units]* 7.6 S	<u>Seo</u> <u>F</u> scted by same m <u>J</u> <u>Have</u> <u>(mStem)</u> <u>(3%)*</u> <u>O. 46 4</u>	L mp 2 ethod as evacuation L 2(D) p Turbidity (NTU) [10% or 1 NTUP	011? (♥ N (speci 2 7 L	γ) · ,
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# GROUNDWATER SAMPLING LOG

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	ю.				npling Personn			15/10 10	
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P Minu /okume of V Di	ump Stop Time Intes of Pumping Vater Removed Id Well Go Dry? Water Quality M Pump Rate	1406 1523 78 3.30gul Y D Meter Type(s)/S Total Castiene-	Serial Numbera;	Temp.	Peristatilo Pum Pump Type: Samples collect	Marsch	() Bladder Ibmersible Pump	Pump (X) ) Other/Sp n? (Y) N (spec H 2100 D0	iv) Turb
P Minu /olume of V Di	tump Stop Time tes of Pumping Vater Removed Id Well Go Dry? Water Quality M Pump Rate (L/min.)	Actor Type(s)/S Total Removed	Serial Numbers: Water	1 .	Peristatilo Pum Pump Type: Samples collect	p() Si Mars ch tod by seme me MAS	() Biadder Ibmersible Pump i Suite System ethod as evacuatio HAC Turbidity	Pump (X) ) Other/Sp n? (Y) N (spec H 2100	m Turb
P Minu folume of V Di	ump Stop Time Intes of Pumping Vater Removed Id Well Go Dry? Water Quality M Pump Rate	1406 1523 78 3.30gul Y D Meter Type(s)/S Total Castiene-	Serial Numbers: Water Level	(Coleium)	Peristatic Pump Pump Type: Samples collec 556 pH	p() Si Mars ch tod by same me MAS Sp. Cond. (mS/cm)	() Biadder Ibmersible Pump i LK <u>System</u> ethod as evacuatio <u>HAC</u> Turbidity (NTU)	Pump (X) ) Other/Sp A.On a n? (Y) N (spec H 2100 DO (mg/)	TUUS TUUS ORP (mV)
P Minu Volume of V Di Time	ump Stop Time Ites of Pumping Vater Removed Id Well Go Dry? Water Quality M Pump Rate (L/min.)	Actor Type(s)/S Total Removed	Serial Numbers; Water Level (ft TIC)	(Coleium)	Peristatic Pump Pump Type: Samples collec 556 pH	p() Si Mars ch tod by same me MAS Sp. Cond. (mS/cm)	() Bladder ibrigersible Pump all - Systen ethod as evacuatio <u>HAC</u> Turbidity (NTU) [10% or 1 NTU] 54	Pump (X) ) Other/Sp A.On a n? (Y) N (spec H 2100 DO (mg/)	TUUS TUUS ORP (mV)
P Minu Volume of V Di Time	ump Stop Time Ites of Pumping Vater Removed Id Well Go Dry? Water Quality M Pump Rate (L/min.)	1406 1523 78 3.309 ul Y (1) Meter Type(s) / 13 L Total L Casiene- Removed 0.20 0.60	Seriel Numbers; Water Level (ft TIC) -7.76	(Celeius) [3%]*	Peristatic Pump Pump Type: Samples called 556 pH (0.1 units)*	p () Si Mars ch tod by same me MAS .Sp. Cond. (ms/cm) [3%]*	() Biaddor abriersible Pump ( $-3, 51 \le n$ ) withod an evacuatio HAC Turbidity (NTU) (10% or 1 NTUP 54 15eO	Pump (X) ) Other/Sp <u>^.0n</u> <u>n?</u> (Y) N (spec <u>4</u> 2/00 <u>00</u> (mg/l) [10% or (1 mg/l)	N) TUB ORP (mV) [10 mV]*
P Minu Volume of V Di Time H 1.5 H 20 H 20 H 25	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry? Water Quality M Pump Rate (L/min.) 150 300	1405 1523 78 3.30gul Y D Motor Type(s)/15 Total Carliene- Removed 0.20 0.60 0.52	Vater Level (PTC) 7.76 7.89 46.39	(Coleius) [3%]* 15.25	Peristatic Pum Pump Type: Samples collect 556 pH i0.1 units]* 7.16	p ( ) Si Mars cl tod by seme me MAS (mSkem) [3%] (533	() Bladdor homersible Pump will $-3ystem$ solution as evacuatio HAC Turbidity (NTU) (10% or 1 NTUP 54 154 154 7.0	Pump (X) ) Other/Sp A On . n? (Y) N (spec H 2100 (mg/l) (10% or (1 mg/l) 1.48	14) Turb ORP (mV) [10 mV]* 21.5
P Minu Volume of V Di Time 120 125 130	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry? Water Quality M Pump Rate (L/min.) 150 300	1405 1523 78 3.30 gul y (1) Motor Type(3)/5 L Callone- Removed 0.20 0.60 0.52 0.78	Seriel Numbers; Water Level (17.76 7.76 7.76 46.39 46.39 56.56	(Cotolius) 133) 15.25 15.14	Peristatic Pump Pump Type: Samples called 556 pH (0.1 units)*	p () Si Mars ch tod by same me MAS .Sp. Cond. (ms/cm) [3%]*	() Biaddor abriersible Pump ( $-3, 51 \le n$ ) withod an evacuatio HAC Turbidity (NTU) (10% or 1 NTUP 54 15eO	Pump (X) ) Other/Sp <u>^.0n</u> <u>n?</u> (Y) N (spec <u>4</u> 2/00 <u>00</u> (mg/l) [10% or (1 mg/l)	N) TUB ORP (mV) [10 mV]*
P Minu Volume of V Di Time 120 125 130 135	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry? Water Quality M Pump Rate (L/min.) 150 300	1405 1523 78 3.3090 Y P deter Type(9)/3 L Total L Gallene- Removed 0.20 0.60 0.52 0.78 1.04	Seriel Numbers: Water Level (17.76 7.76 7.76 7.76 46.39 46.39 46.39 46.39	(Catalum) 13%) 15.25 15.14 15.13	Peristatic Pum Pump Type: Samples collect 556 pH i0.1 units]* 7.16	p ( ) Si Mars cl tod by seme me MAS (mSkem) [3%] (533	() Bladdor homersible Pump will $-3ystem$ solution as evacuatio HAC Turbidity (NTU) (10% or 1 NTUP 54 154 154 7.0	Pump (X) ) Other/Sp A On . n? (Y) N (spec H 2100 (mg/l) (10% or (1 mg/l) 1.48	14) Turb ORP (mV) [10 mV]* 21.5
P Minu Volume of V Di Tume 4 1.5 4 20 4 20 4 20 4 20 4 35 4 30 1 35 4 0	Pump Stop Time Ites of Pumping Vater Removed d Weil Go Dry? Water Quality N Pump Rate (L/min.) (50) 3000 2000	1406 1523 78 3.30 gul Y (P) Motor Type(s)/15 L Callone- Removed 0.20 0.60 0.52 0.78	Seriel Numbers; Water Level (17.76 7.76 7.76 46.39 46.39 56.56	(Cotolum) 13%) 15.25 15.14 15.13 (5.11	Peristatic Pum Pump Type: Samples collect 556 pH i0.1 units]* 7.16	p () Si Mars cl tod by same me MAS (mS/cm) [3%] <sup>2</sup> [5] [5] [5] [5] [5] [5] [5] [5] [5] [5]	() Bladder hornersible Pump i Alk - 5ystem ethod an evacuatio $HACTurbidity(NTU)10% or 1 NTUP5 41 5aO7. O5. O$	Pump (X) ) Other/Sp A. On . n? (Y) N (spec H 2100 (mg/l) [10% or (1 mg/l) 1.48 1.80 2.55	N) Tubb ORP (mV) [10 mV] 21.5 10.2 7.9
P Minu Volume of V Di Time 4 1.5 4 20 4 20 4 20 4 20 4 25 4 30 1 35 4 0 1 35 4 0 1 45	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry? Water Quality M Pump Rate (L/min.) 150 300	1405 1523 78 3.3090 Y P deter Type(9)/3 L Total L Gallene- Removed 0.20 0.60 0.52 0.78 1.04	Seriel Numbers: Water Level (17.76 7.76 7.76 7.76 46.39 46.39 46.39 46.39	(Catalum) 13%) 15.25 15.14 15.13	Peristatic Pump Pump Type: Samples collect 556 pH i0.1 units]* 7.16 7.16 7.06 7.06	p() Si Mars cl Mars cl MAS MAS (mSicm) [3%] [3%] [5] [5] [5] [5] [5] [5] [5] [5] [5] [5	() Bladdor homersible Pump will $-3ystem$ solution an evacuatio HAC Turbidity (NTU) (NTU) (10% or 1 NTUP 54 154 154 7.0 5.0 4.0	Pump X ) Other/Sp A.On 17 N (spec H 2100 DO (mg/) (10% or 0.1 mg/) 1.48 1.80 2.55 2.64	10) Turb ORP (mV) [10 mV]* 21.5 [0.2 7.9 7.1
P Minu Volume of V Di Tume 4 1.5 4 20 4 20 4 20 4 20 4 35 4 30 1 35 4 0	Pump Stop Time Ites of Pumping Vater Removed d Weil Go Dry? Water Quality N Pump Rate (L/min.) (50) 3000 2000	1406 1523 78 3.30901 Y B Motor Type(3)/5 L Total L Total Calinoved 0.20 0.60 0.52 0.78 1.04 1.31	Seriel Numbers; Water Level (17.76 7.76 7.76 1.89 46.39 46.39 46.39 46.39 46.91 9.21	(Cotolum) 13%) 15.25 15.14 15.13 (5.11	Peristatic Pump Pump Type: Samples collect 556 pH $10.1 \text{ units}^{*}$ 7.16 7.06 7.06 7.02 6.97 6.97	p () Si Mars cl Mars cl massen MAS (mskem) [3%] [533] [547] [558] [562] [562] [568]	() Bladder homersible Pump will $-3ystem$ withod as evacuatio HAC Turbidity (NTU) (10% or 1 NTUP 54 150 7.0 5.0 4.0 4.0 4.0	Pump (X) ) Other/Sp A On . n? (V) N (spec H 2100 (mg/l) (10% or (1 mg/l) 1.48 1.48 1.80 2.55 2.64 2.914	N) Tubb ORP (mV) [10 mV] 21.5 10.2 7.9 7.1 5.2
P Minu Volume of V Di Time 1/5 1/25 1/	rump Stop Time ites of Pumping Vater Removed d Weil Go Dry? Water Quality N Pump Rate (L/min.) (50) 3000 2000 2000 2000 1500	1405 1523 78 3.30 gul Y (P) Motor Type(s)/S L. Canione- Removed 0.20 0.60 0.52 0.78 1.04 1.31 1.31 1.31 1.31 1.31	Seriel Numbers; Water Level (12 TIC) 7.76 7.76 7.76 7.76 7.76 45.39 8.5% 8.91 9.21 9.63 er (three consect	(Catalum) 13%) 15.25 15.14 15.13 (5.11 15.15 15.15 15.15	Peristatic Pump Pump Type: Samples collect 556 pH i0.1 units] <sup>*</sup> 7.16 7.06 7.06 7.02 6.97 6.95	p() Si Marsel Marsel MAS MAS (mSicm) [3%] (mSicm) [3%] [3%] [3%] [547 [558 [547 [562 [562 [564] [564]	() Bladdor hornersible Pump will $-3ystem$ solution an evacuatio HAC Turbidity (NTU) (NTU) (10% or 1 NTUP 54 154 154 7.0 5.0 4.0 4.0 4.0 4.0 4.0	Pump (X) ) Other/Sp A.On. n? () N (spec H 2100 (mg/l) [10% or (1 mg/l) 1.48 1.80 2.55 2.64 2.64 2.914 1.74	10) Turb ORP (mV) [10 mV]* 21.5 [0.2 7.9 7.1
P Minu Volume of V Di Time $\frac{1}{20}$ $\frac{1}{25}$ $\frac{1}{20}$ $\frac{1}$	rump Stop Time ites of Pumping Vater Removed d Weil Go Dry? Water Quality N Pump Rate (L/min.) (50) 3000 2000 2000 2000 1500	1405 1523 78 3.30 gul Y (P) Motor Type(9)/19 Motor Type(9)/19 Motor Type(9)/19 Motor Type(9)/19 Motor Type(9)/19 Contail Contail Contail Contail 0.50 0.60 0.52 0.78 1.04 1.31 1.51 1.31	Seriel Numbers; Water Level (12 TIC) 7.76 7.76 7.76 7.76 7.76 45.39 8.5% 8.91 9.21 9.63 er (three consect	(Catalum) 13%) 15.25 15.14 15.13 (5.11 15.15 15.15 15.15	Peristatic Pump Pump Type: Samples collect 556 pH i0.1 units] <sup>*</sup> 7.16 7.06 7.06 7.02 6.97 6.95	p() Si Marsel Marsel MAS MAS (mSicm) [3%] (mSicm) [3%] [3%] [3%] [547 [558 [547 [562 [562 [564] [564]	() Bladder homersible Pump will $-3ystem$ withod as evacuatio HAC Turbidity (NTU) (10% or 1 NTUP 54 150 7.0 5.0 4.0 4.0 4.0	Pump (X) ) Other/Sp A.On. n? () N (spec H 2100 (mg/l) [10% or (1 mg/l) 1.48 1.80 2.55 2.64 2.64 2.914 1.74	N) Tubb ORP (mV) [10 mV] 21.5 10.2 7.9 7.1 5.2

SAMPLE DESTINATION

Laboratory: <u>565</u> Delivered Via: <u>4P5</u> Airbil 🖈 👘

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Field Sampling Coordinator:

Well No. GMA1-3

Site/GMA Name \_\_\_\_\_ Sampling Personnel \_\_\_\_

Date

Weather

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WELL INFORMATION - See Page 1

	Pump	Total	Water	Тетр.	рН	Sp. Cond.	Turbidity	DO	ORP
Time	Rate (L/min.)	Gallons Removed	Level (ft TIC)	(Celsius)	10.4	(mS/cm)	(NTU)	(mg/l)	(mV)
1453	200	1.87	9.77	[3%]* [5-[6	[0.1 units]* 6.94	1.572	it. O	[10% or 0.1 mg/]*	[10 mV]* 2,2
1456	200	{	9.98	15-14	6,94	<u></u>		1.08	
1459		2.03	10.17		*****	.575			0.2
1502		2.19	·	1 5.21		1.571	4.0	0.83	~ 0.8
1505		2.34	(0-27	15.23	6.94	1,509	3.0	0.53	-2.7
		2.50	NA	15.24	6.96	1559	4.0	0.35	- 5.9
1504	<u>_</u>	2.66	11.16	15.25	6.97	15-54	4.0	0.30	-64
1511		2.82	11.31	15-22	7.01	1.551	NAX	0.49	- 0.7
1513		2.93	11.67	15.18	7.01	1.552	NAX	0.46	- 8.9
1516	12 10	3.08	11.59	15-11	7.01	1555	NAA	0.42	-8.9
	(01100	ed St.	ple (2)	1517					
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• The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. OBSERVATIONS/SAMPLING METHOD DEVIATIONS

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PAGE LOF 2

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### GROUNDWATER SAMPLING LOG

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Key N		-		Sam	paling Personn	et Func	10A-	······································	
PID B	ackground (pp	m) <u>0</u>			Dai	• to/	15 /08		······
Well F	lendepace (pp	m) 🔿 🔤			Weethe		- Mid 703	,	
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WELL INFO		~					Sample Tir	1512	20
Referen	nce Point Merke						Sample		
Height (	of Reference Po	int^4	Meas. Fro	m <u>GROOM</u>	20		Duplicate i		
	Well Diame						MSAMS		
	oon Interval Dop		-19 Moas. Fro	m TIC	_		Spill Sample I	o a	
v	Nator Table Dep		Moss. Fro	·····					
Longth	Well Dep		Moes. Fro	m <u>The</u>	<b></b>	Required	Analytic	al Parameters;	Collecte
	t of Water Colum e of Water in W		•			( )	VOC	a (Sid. ist)	()
	h of Pump/Tubi			_ T.C.		(5		a (Exp. list)	( )
		·9		······································		( )		SVOC	( )
leference Pr	xint Identification	к:						Ba (Total)	()
IC: Top of k	nner (PVC) Cas	ing				$(\chi)$		(Dissolved)	$(\wedge)$
	Outer (Protectly					()		organics (Total) anics (Dissolved)	( )
nde/BGS;	Ground Surface	ı .				()		nide (Dissolved)	
	-					()		tide (Dissolved)	τ.) ( )
edevelop?	Y (N)					()		Ds/PCDFs	()
	$\bigcirc$					()	Pesticid	es/Herbicides	()
						()	Natura	Attenuation	()
						()	Othe	r (Specify)	()
	Pump Start Time	~ い・ヘクノ	ر						
	<sup>o</sup> ump Stop Time				Evecuation Me	ethod: Bailer (			
	Water Removed		5gullons		Peristatic Pun Pump Type:		ibmensible Pump Chulk - Svot		pecify ( )
	id Well Go Dry?		,	<u>Y31-556</u>	Pump Type: Samples collec	Marse cted by same me	thalk - Syst	in? YN (spec	·····
	id Well Go Dry?	Y N Meter Type(s) / :	Sorial Numbers:		Pump Type: Samples collect	Marse cted by same me luch 2/0	chulk - Syst othod as evacuation op Tu-51	in? (r) (spen	city)
	id Well Go Dry?	YN	,	Temp.	Pump Type: Samples collec	Marse	that k - Syst	in (2nc n? YN (spec lim tor DO	city) ORP
0	id Well Go Dry? Water Quality ! Pump	Y N Vietor Type(s) / : Total	Sorial Numbers: Water	Temp. (Ceisius)	Pump Type: Samples collec <u>MPJ</u> pH	Marse ctod by same me luch 2/01 .Sp. Cand. (mS/cm)	that k - Syst	DO (mg/l)	city) ORP (mV)
D	id Well Go Dry? Water Quality ! Pump Rate (L/min.)	Y N Vetor Type(s) / S Total Gailons Removed	Serial Numbera: Water Level (ft TIC)	Temp.	Pump Type: Samples collect	Marse	thall (c - Sug t athod as avacuatio P Tu-S) Turbidity (NTU) [10% or 1 NTUP	in (2nc n? YN (spec lim tor DO	caliy) ORP (maV)
D Time 14:20	id Weil Go Dry? Water Quality ! Pump Rate (L/min.) / CO	Y N Meter Type(s)/s Total Gallons Removed FAITIAL	Serial Numbers: Water Level (ft TIC) - 3.61	Temp. (Ceisius) [3%]"	Pump Type: Samples collec MPJ 4 pH j0.1 units]*	<u>Mars</u> cted by same me (uch 2/0) (mSicm) (3%)*	thalk - Sust othod as ovecuatio P Tin-51 Turbidity (NTU) [10% or 1 NTUP 27	DO (mg/l)	city) ORP (mV)
D Time 14:20 4:25	id Well Go Dry? Water Quality ! Pump Rate (L/min.)	Y N Vetor Type(s) / S Total Gailons Removed	Serial Numbera: Water Level (ft TIC)	Temp. (Ceisius) [3%]"	Pump Type: Samples collec <u>MPJ</u> pH	Marse ctod by same me luch 2/01 .Sp. Cand. (mS/cm)	thall (c - Sug t athod as avacuatio P Tu-S) Turbidity (NTU) [10% or 1 NTUP	DO (mg/l)	city) ORP (mV) * [10 mV]*
Time 14:20 4:25 4:30	id Well Go Dry? Water Quality ! Pump Rate (L/min.) / UD / UD / UC	Y N Meter Type(s) / s Total Gailons Removed FMITIAL SCO IUU	Serial Numbers; Water Level (11 TIC) - 3.G1 - 3.78 - 7.82	Temp. (Ceistus) [3%]" — — — — — — — — — — — — — — — — — — —	Pump Type: Samples collec MPJ 4 pH j0.1 units]*	<u>Mars</u> cted by same me (uch 2/0) (mSicm) (3%)*	thalk - Sust othod as ovecuatio P Tin-51 Turbidity (NTU) [10% or 1 NTUP 27	10% or 0.1 mg/l	cdy) ORP (mV) [10 mV]*
Time 14:20 4:25 4:30	id Well Go Dry? Water Quality ! Pump Rate (L/min.) / CO / UC	Y N Vetor Type(s)/s Total Gailons Removed FMITIAL 5C0	Serial Numbers: Water Level (ft TIC) - 3. G / 3. 78	Temp. (Ceistus) [3%]" — — — — — — — — — — — — — — — — — — —	Pump Type: Samples collect MPJ 4 pH i0.1 units]* 7.55 7.59	<u>Mars</u> ctod by same me <u>luch 2/0</u> <u>.sp. Cond.</u> (mS/cm) <u>.3%1</u> <u></u> 0.888 0.876	thulk - Sust othod as ovecuatio P Tin-51 Turbidity (NTU) [10% or 1 NTUP 27 31 35	10.72 10.72	city) ORP (mV) [10 mV]* - - 180,1 - (79,1
Three 14:20 4:25 4:30 4,35	id Well Go Dry? Water Quality ! Pump Rate (L/min.) / UD / UD / UC	Y N Vetor Type(s)/s Total Gailone Removed FAITIAL 5C0 1000 1750	Serial Numbers: Water Level (ft TIC) - 3.61 - 3.78 - 4.82 - 5.04	Temp. (Ceistan) [3%]*  20.87 20.87 20.51	Pump Type: Samples collect MPJ 4 pH (0.1 units)* 7.55 7.59 7.60	<u>Marse</u> (mon 2/0) <u>Sp. Cond.</u> (msiem) <u>13%1</u> <u>0.888</u> <u>0.876</u> <u>0.876</u> <u>0.877</u>	$\frac{1}{2} \frac{1}{2} \frac{1}$	107.72 10.72 10.72 10.72 10.72 7.63	ory) ORP (mV) [10 mV]* -180,1 -180,1 -178,1
D	id Well Go Dry? Water Quality ! Pump Rate (L/min.) / CO / UC / UC / UC	Y N Vetor Type(s) / s Total Gailons Removed FMITIAL SCO IUU	Serial Numbers; Water Level (11 TIC) - 3.G1 - 3.78 - 7.82	Temp. (Ceistus) [3%]" — — — — — — — — — — — — — — — — — — —	Pump Type: Samples collect MPJ 4 pH [0.1 units]* 7.55 7.59 7.59 7.60 7.64	<u>Marse</u> ctod by same me <u>luch 2/0</u> <u>.sp. Cond.</u> (mS/cm) <u>(3%)</u> <u>0.888</u> 0.876 0.877 <u>0.837</u>	thulk - Sust othod as ovecuatio P Tin-51 Turbidity (NTU) [10% or 1 NTUP 27 31 35	103.72 1.63 1.63	0RP (mV) [10 mV] - -180,1 -178,1 -178,1 -173,9
Thme 14:20 4:25 4:30 4:40 4:40 4:47	id Well Go Dry? Water Quality ! Pump Rate (L/min.) 100 100 100 100 150 75 75	Y N Vetor Type(s)/s Total Gallone Removed FMITIAL 5CO 1000 1750 2125 2500	Serial Numbers: Water Level (ft TIC) - 3.G/ - 3.G/ - 3.G/ - 3.G/ - 3.G/ - 5.04 - 5.04 - 5.04	Temp. (Ceistan) [3%]*  20.87 20.87 20.51 20.51 20.43	Pump Type: Samples collect MPJ 4 pH (0.1 units)* 7.55 7.59 7.59 7.60 7.61 7.63	<u>Marse</u> (mch 2/0) (mSiem) (mSiem) (3%)* 0.888 0.876 0.837 0.837 0.811 0.769	$\frac{16 - 16 - 5 + 5 + 1}{26 - 5 + 5 + 1}$ $\frac{16 - 5 + 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$	103.72 10.72 10.72 10.72 10.72 7.63 7.63 7.63	0RP (mV) [10mV]* -180,1 -178,1 -178,1 -173,9 -171,1
Time 14:20 4:25 4:25 4:30 4:40 4:40 4:47 4:50	id Well Go Dry? Water Quality ! Pump Rate (L/min.) / CO / UC / UC / UC	Y N Meter Type(s)/s Total Gallone Removed FNITIAL 5CO 1000 1750 2125 2500 2125	Serial Numbers: Level (11 TIC) - 3.61 - 3.61 - 3.78 	Temp. (Ceistus) [3%]*  30.87 20.87 20.51 20.77 20.45 20.45	Pump Type: Samples collect MPJ 4 pH j0.1 units]* 7.55 7.59 7.59 7.60 7.64 7.63 7.68	<u>Marse</u> ctod by same me <u>luch 2/0</u> <u>.sp. Cond.</u> (mS/cm) <u>(3%)</u> <u>0.888</u> <u>0.876</u> <u>0.876</u> <u>0.877</u> <u>0.811</u> <u>0.769</u> <u>6.755</u>	$\frac{1}{2} \frac{1}{2} \frac{1}$	103.72 7.63 7.63 7.71	ORP (mV) [10 mV] - -180,1 -178,1 -178,1 -173,9
Thme 14:20 4:25 4:25 4:30 4:40 4:47 4:47 4:50 4:55	id Well Go Dry? Water Quality ! Rate (L/min.) 1000 100 100 100 1000 100 100 100	Y N Meter Type(s)/s Total Gallone Removed FMITIAL 5CO 1000 1750 2125 2500 2500 2500 2500	Serial Numbers: Level (17 TIC) - 3.G1 - 3.G1 - 3.G1 - 3.78 	Temp. (Ceistus) 3%)*  20.87 20.87 20.51 20.77 20.43 20.43 20.46 20.58	Pump Type: Samples collect MPJ 4 pH i0.1 units]* 7.55 7.59 7.60 7.64 7.63 7.68 7.67	<u>Mars</u> (mars) <u>Mars</u> (main) <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u>	$\frac{1}{10} \frac{1}{10} \frac$	10% or 0.1 mg/1 10% or	0RP (mV) [10mV]* -180,1 -178,1 -178,1 -173,4 -171,1
Time 4:20 4:25 4:25 4:30 4:40 4:47 4:47 4:50 4:55 4:55 4:55 4:55 4:55 4:55 4:55 4:55 4:55 5 5 5 5 5 5 5 5 5 5 5 5	id Well Go Dry? Water Quality ! Rate (L/min.) 1000 100 100 100 1000 100 100 100	Y N Meter Type(s)/s Total Gallone Removed FMITIAL SCO IUUU 1750 J125 J250 J255 J250 h field parameter	Serial Numbers: Verter Level (17 TIC) - 3.G1 - 3.G1 - 3.G1 - 3.G1 - 3.G1 - 3.G1 - 3.G1 - 5.04 - 5.04 - 5.07 - 5.09 - 5.17 - 5.25 er (three consec	Temp. (Ceistus) 3%)*  20.87 20.87 20.51 20.77 20.43 20.43 20.46 20.58	Pump Type: Samples collect MPJ 4 pH i0.1 units]* 7.55 7.59 7.60 7.64 7.63 7.68 7.67	<u>Mars</u> (mars) <u>Mars</u> (main) <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u> <u>Mars</u>	$\frac{16 - 16 - 5 + 5 + 1}{26 - 5 + 5 + 1}$ $\frac{16 - 5 + 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$ $\frac{10 - 5 - 5 + 1}{10 - 5 + 1}$	103.72 7.63 7.67 2.67	Caty) ORP (mV) [10 mV] - -180,1 -178,1 -178,1 -173,9 -171,1 -167,8
Time 14:20 4:25 4:25 4:30 4:40 4:40 4:47 4:50 4:50 4:55 e stabilizatio	Hid Well Go Dry? Water Quality ! Rate (L/min.) 1/00 1000 1000 1000 1000 1000 1000 100	Y N Meter Type(s)/s Total Gallone Removed FMITIAL SCO IUUU 1750 J125 J250 J255 J250 h field parameter	Serial Numbers: Verter Level (17 TIC) - 3.G1 - 3.G1 - 3.G1 - 3.G1 - 3.G1 - 3.G1 - 3.G1 - 5.04 - 5.04 - 5.07 - 5.09 - 5.17 - 5.25 er (three consec	Temp. (Ceistus) [3%]*  20.87 20.87 20.51 20.51 20.45 20.45 20.45 20.46 20.58	Pump Type: Samples collect MPJ 4 pH [0.1 units]* 7.55 7.59 7.59 7.64 7.63 7.63 7.63 7.67	<u>Marse</u> (mod 2/0) <u>App Cond.</u> (mSiem) <u>13%1</u> <u>0.888</u> <u>0.876</u> <u>0.877</u> <u>0.811</u> <u>0.769</u> <u>0.755</u> <u>0.691</u> <u>5-minute interval</u>	$\frac{1}{10} + \frac{1}{10} + \frac{5}{10} $	103.72 7.63 7.67 2.67	Caty) ORP (mV) [10 mV] - -180,1 -178,1 -178,1 -173,9 -171,1 -167,8
Time 14:20 4:25 4:30 4:35 4:40 4:47 4:47 4:56 4:55 0 stabilizatio	Hid Well Go Dry? Water Quality ! Rate (L/min.) 1/00 1000 1000 1000 1000 1000 1000 100	Y N Meter Type(s)/s Total Gallone Removed FMITIAL SCO IUUU 1750 J125 J250 J255 J250 h field parameter	Serial Numbers: Water Level (It TIC) 3.G1 3.G1 3.78 -7.82 5.04 5.07 5.07 5.17 5.17 5.15 er (three consec TKONS	Temp. (Ceistus) [3%]*  20.87 20.87 20.51 20.51 20.63 20.63 20.65 20.58	Pump Type: Samples collect MPJ 4 pH [0.1 units]* 7.55 7.59 7.59 7.64 7.63 7.63 7.63 7.67	<u>Marse</u> (mod 2/0) <u>App Cond.</u> (mSiem) <u>13%1</u> <u>0.888</u> <u>0.876</u> <u>0.877</u> <u>0.811</u> <u>0.769</u> <u>0.755</u> <u>0.691</u> <u>5-minute interval</u>	$\frac{1}{10} + \frac{1}{10} + \frac{5}{10} $	103.72 7.63 7.67 2.67	Caty) ORP (mV) [10 mV] - -180,1 -178,1 -178,1 -173,9 -171,1 -167,8
Time 14:20 4:25 4:30 4:35 4:40 4:47 4:47 4:56 4:55 0 stabilizatio	Hid Well Go Dry? Water Quality ! Rate (L/min.) 1/00 1000 1000 1000 1000 1000 1000 100	Y N Meter Type(s)/s Total Gallone Removed FMITIAL SCO IUUU 1750 J125 J250 J255 J250 h field parameter	Serial Numbers: Water Level (It TIC) 3.G1 3.G1 3.78 -7.82 5.04 5.07 5.07 5.17 5.17 5.15 er (three consec TKONS	Temp. (Ceistus) [3%]*  20.87 20.87 20.51 20.51 20.63 20.63 20.65 20.58	Pump Type: Samples collect MPJ 4 pH [0.1 units]* 7.55 7.59 7.59 7.64 7.63 7.63 7.63 7.67	<u>Marse</u> (mod 2/0) <u>App Cond.</u> (mSiem) <u>13%1</u> <u>0.888</u> <u>0.876</u> <u>0.877</u> <u>0.811</u> <u>0.769</u> <u>0.755</u> <u>0.691</u> <u>5-minute interval</u>	$\frac{1}{10} + \frac{1}{10} + \frac{5}{10} $	103.72 7.63 7.67 2.67	Caty) ORP (mV) [10 mV] - -180,1 -178,1 -178,1 -173,9 -171,1 -167,8
Time 4:20 4:25 4:25 4:30 4:40 4:47 4:47 4:50 4:55 4:55 4:55 4:55 4:55 4:55 4:55 4:55 4:55 5 5 5 5 5 5 5 5 5 5 5 5	Hd Well Go Dry? Water Quality ! Pump Rate (L/min.) 100 100 100 100 100 100 100 100 100 10	Y N Meter Type(s)/s Total Gallone Removed FMITIAL SCO IUUU 1750 J125 J250 J255 J250 h field parameter	Serial Numbers: Water Level (It TIC) 3.G1 3.G1 3.78 -7.82 5.04 5.07 5.07 5.17 5.17 5.15 er (three consec TKONS	Temp. (Ceistus) [3%]*  20.87 20.87 20.51 20.51 20.63 20.63 20.65 20.58	Pump Type: Samples collect MPJ 4 pH [0.1 units]* 7.55 7.59 7.59 7.64 7.63 7.63 7.63 7.67	<u>Marse</u> (mod 2/0) <u>App Cond.</u> (mSiem) <u>13%1</u> <u>0.888</u> <u>0.876</u> <u>0.877</u> <u>0.811</u> <u>0.769</u> <u>0.755</u> <u>0.691</u> <u>5-minute interval</u>	$\frac{1}{10} + \frac{1}{10} + \frac{5}{10} $	103.72 7.63 7.67 2.67	Caty) ORP (mV) [10 mV]* -180,1 -180,1 -178,1 -173,9 -171,1 -167,8

Airbill #:\_\_\_\_\_

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Field Sampling Coordinator:

C:WORKOGEOmundanter/204190AttachmanE3-2

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Well No.

Site/GMA Name Sampling Personnel

GMA 1 Emc/DA-10/15/08 Date 70.5 Sunny - mid Weather

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WELL INFORMATION - See Page 1

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Time	Pump Rate (Umin.)	Total Gailons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
15:00	75	3625	5,45	20.49	7.73	0.662	10	-+20-6.09	-176.
15,05	75	4000	5.53	20.44	7.68	0.652	9	5.96	-170,
15,10	75	4375	5.59	20.24	7.77	5.642	N N	G.O	-111.5
15.15	75	4750	5.63	20.29	7.74	6.639	8	5.89	-167.
15:20	SAMPLE								
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VIGE\_Pittsfield\_General\_ConfidentialReports and Presentations/FSP\_QAPP UpdateREV04VAttachment D-2GWaamplorm\_DRAFTv1,sta

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### GROUNDWATER SAMPLING LOG

12 11	95-2						hE PittsG	<u>c [U</u>	
Key No.				Sampli	ing Personnel	<u>_121C</u>			
	ground (ppm)			•	Date	10/15/08	······		,
Well Heat	dspace (ppm)			. ·	Weather	Sunni	1-601S		
WELL INFORM	ATION	~					' Sample Time	1620	
Reference	Point Marked?	ωN					Sample ID	95-20	) 
Height of R	teference Point	····	Meas. From				Duplicate ID		
	Weë Diameter						MS/MSD	•	
Screen	Interval Depth		Meas. From	Grown	-		Spiit Sample ID		
Wat	er Table Depth		Meas. From	TIL					
	•	1.96	Meas, From	Tie	-	Required		Parameters:	Callec
	Water Column		•			()		(Stri. üst)	(
	f Water in Well					( S		(Exp. list)	(
intake Depth o	f Pump/Tubing	NI FIEL	Meas. From	The	•	()		OCs	<
						( )		(Total)	(
Reference Point						( 🗙 )		Dissolved)	$\langle \rangle$
TIC: Top of Inne		•				()		ganics (Total)	(
TOC: Top of Ou		Casing				()	-	nics (Dissolved)	(
Grade/BGS: Gn	ound Surface	•				$\langle \rangle$	-	le (Dissolved)	(
· · · · · ·						$\langle \rangle$		le (Dissolved)	(
Redevelop?	YN					( )		s/PCDFs	
						$\langle \rangle$		/Herbicides	(
						()		Attenuation (Specify)	(
Pu Pu Minute Volume of Wa	mp Start Time mp Stop Time es of Pumping	1630	- >~s		Evacuation Mei Peristattic Pum Pump Type: Samples collec	n (X) Sui Geo P	omensible Pump (	ump ( ) ) Other/Spe	
Pu Minula Volume of Wa Did	mp Start Time imp Stop Time es of Pumping ater Removed I Well Go Dry?	1630 85 5.690llz		151-5-5	Peristattic Pum Pump Type: Samples collec	ted by same me	mersible Pump( ルータこ Ihod as evacuation	ump ( ) ) Other/Spe	ý)
Pu Pu Minuta Volume of Wa Did	mp Start Time mp Stop Time es of Pumping ater Removed I Well Go Dry? f : Water Quality M	/ (c.30 5-69.c.//r Y N Heter Type(s)/Si	eriał Numbers:		Peristattic Pum Pump Type: Samples collec	p (X) Sui Seo P ted by some me <u>Hach</u>	$\frac{1}{2}$	ump ( ) ) Other/Spe 17 YN (specif	ý)
Pu Pu Minuta Volume of Wa Did	mp Start Time mp Stop Time es of Pumping ater Removed I Well Go Dry? f: Water Quality M Pump	/ (c.30 5-69.c.//r Y N Heter Type(s)/Si	erial Numbers: Water	Temp.	Peristattic Pum Pump Type: Samples collec	p (X) Sub Seo P ted by some me Hach Sp. Cond.	mersible Pump ( <u> <u> <u> </u> <u> </u></u></u>	ump () ) Other/Spe n? (Y)N (specif Turs, i.h. m DO	v) ctc- ORF
Pu: Pu Minuta Volume of Wa Did	mp Start Time mp Stop Time es of Pumping ater Removed I Well Go Dry? f : Water Quality M	/ (c.30 5-69.c.//r Y N Heter Type(s)/Si	eriał Numbers:		Peristattic Pum Pump Type: Samples collec	p (X) Sui Seo P ted by same me <u>Hach</u>	$\frac{1}{2}$	ump ( ) ) Other/Spe n? ()N (specif	(y) 07e
Pu: Pu Minuta Volume of Wa Did	mp Start Time mp Stop Time es of Pumping ater Removed I Well Go Dry? Kater Quality M Pump Rate	/ (c.30 5-69.6.1/1 Y (N) Heter Type(s) / So Total Gailons	erial Numbers: Water Level	Temp. (Celaius)	Peristattic Purn Pump Type: Samples collec 76 M 17 J pH	p (X) Sub Sec P ted by some me Hach Sp. Cond. (mS/cm)	mersible Pump ( <u> <u> <u> </u> <u> </u></u></u>	ump () ) Other/Spe n? (Y)N (specif Tu-S, i/, m DO (mg/l)	(y) 07e
Pu: Pu Minute Volume of Wa Dia V	mp Start Time imp Stop Time es of Pumping ater Removed I Well Go Dry? Water Quality M Pump Rate (L/min.)	/ (2.30 <u>8.5</u> <u>5.696.111</u> Y N Heter Type(s) / Sc Total Gailons Removed	eriał Numbers: Water Lovel (ft TC)	Temp. (Celaius)	Peristattic Purn Pump Type: Samples collec 76 M 17 J pH	p (X) Sub Sec P ted by some me Hach Sp. Cond. (mS/cm)	mersible Pump ( <u> <u> <u> </u> <u> </u></u></u>	ump () ) Other/Spe n? (Y)N (specif Tu-S, i/, m DO (mg/l)	y) 
Pu: Pu Minute Volume of Wa Dia V	mp Start Time imp Stop Time es of Pumping ater Removed I Well Go Dry? Water Quality M Pump Rate (L/min.)	/ (c.30 5-69.6.1/1 Y N Hoter Type(s) / Si Total Gallons Removed 0-33	erial Numbers: Water Level (ft TiC) 23.97	Tomp. (Colsius) [3%]*  [6,46 [6,40	Peristattic Purm Pump Type: Samples collec <b>7</b> <i>M D J</i> <b>PH</b> [0.1 units]* <b>PH</b> [0.1 units]* <b>P</b> <b>P</b> <i>J I J</i> <i>J I J</i> <i>J I J</i>	p (X) Sub Sec P ted by some me Huch (mS/cm) [3%]* 0.869 0.863	mersible Pump ( <u> <u> <u> </u> <u> </u></u></u>	unp () ) Other/Spe $(\gamma) N$ (specify Tu - S, il, m DO (mg/l) [10% or 0.1 mg/l] (mg/l) (mg/l) (mg/l) (mg/l)	y) .7 (mV [10 m] -53. -50
Pu: Pu Minute Volume of Wa Dia V V TIme 1510 1525 1525	mp Start Time imp Stop Time es of Pumping ater Removed I Well Go Dry? Water Quality M Pump Rate (L/min.)	/ (2.30 5.69.6.1/1 Y N Heter Type(s) / Sc Total Gallons Removed 0.33 0.66	erial Numbers: Water Level (ft TIC) 13.97 14,32 14,44 14,74	Tomp. (Cotoius) [3%]* 	Peristattic Purn Purnp Type: Samples collec 7 MDJ pH [0.1 units]* 7.11 3	p (X) Sui Sec P ted by some me Huch Sp. Cond. (mS/cm) [3%] <sup>+</sup> 0.869 0.863 0.860	mersible Pump ( <u> <u> <u> </u> <u> </u></u></u>	unp () ) Other/Spe 7 (Y) N (specified for the second s	y) .7 ORF (mV [10 m] -53. -570
Pu: Pu Minute Volume of Wa Did V TIme 1510 1510 1525 1525 1530	mp Start Time imp Stop Time es of Pumping ater Removed I Well Go Dry? Water Quality M Pump Rate (L/min.)	/ (c. 30 85 5-69 c. //1 Y (N) Hoter Type(s) / Su Total Gaillons Removed 0.33 0.66 0-99 1-32 1.65	erial Numbers: Water Lovel (Rt TIC) 13.97 14.32 14.74 14.74 14.94	Tomp. (Colsius) [3%]* 	Peristattic Purm Purmp Type: Samples collec CMP pH $[0.1 units]^*$ PH $\overline{P}$ P	p (X) Sub Sec P Led by some me Hach Sp. Cond. (mS/cm) [3%] <sup>*</sup> 0.869 0.863 0.860 0.864	$\frac{\text{omensible Pump}}{\text{Inod as evacuation}}$ $\frac{\text{Tarbidity}}{(\text{NTU})}$ $\frac{10\% \text{ or } 1 \text{ NTU}}{1}$	unp () ) Other/Spe 7 (Y) N (specification (specification)) (specification)) (specification)) (specification) (specification)) (specification) (specification)) (specification) (specification)) (specification) (specification) (specification) (specification)) (specification) (specific	v) ort
Pu: Pu Minuté Volume of Wa Dia V Time 1510 1525 1525 1525 1530	mp Start Time imp Stop Time es of Pumping ater Removed I Well Go Dry? Water Quality M Pump Rate (L/min.)	/ (c. 30 85 5. 69 c. 1/1 Y N eter Type(s) / St Total Gailons Removed 0.33 0. 66 0.99 1.32 1.65 1.98	erial Numbers: Water Level (ft TIC) 13.97 14,32 14,44 14,74 14,94 14,94	Tomp. (Gotsius) [3%]*  16,46 16,46 16,58 16,58 16,49 16,35	Peristattic Purm Purmp Type: Samples collec CMP PH [0.1 units]* PH PH PH P P P P P P P P	$\begin{array}{c} (X) & Suite \\ Second P \\ Condect \\ (MS/cm) \\ (MS/$	$\frac{\text{omensible Pump}}{\text{Inod as evacuation}}$ $\frac{\text{Tarbidity}}{(\text{NTU})}$ $\frac{10\% \text{ or } 1 \text{ NTU}}{1}$	unp () ) Other/Spe 7 (Y) N (specification) = 00 (mg/l) (mg/l) (10% or 0.1 mg/l)	y) oft- (mV [10 m] -53, -50 -38 -28,
Pu: Pu Minute Volume of Wa Dia V Time 1570 1570 1575 1530 1535 1530	mp Start Time imp Stop Time es of Pumping ater Removed I Well Go Dry? Water Quality M Pump Rate (L/min.)	/ (a 30) 35 $5 \cdot 69 \cdot 117$ Y N eter Type(s) / St Total Gallons Removed 0.33 0.66 0.99 1.32 1.65 1.98 2.31	erial Numbers: Water Lovel (ft TIC) 13.97 14.32 14.44 14.74 14.94 15.13 15.36	Tomp. (Colsius) [3%]* 	Poristatic Purm Purmp Type: Samples collec CMP pH [0.1 units]* P P P P P P P P	p (X) Suit Se o P ted by come me Huch Sp. Cond. (mS/cm) (3%)* 0.869 0.863 0.860 0.864 0.864 0.864 0.864 0.864 0.864	$\frac{\text{omensible Pump}}{\text{Inod as evacuation}}$ $\frac{\text{Tarbidity}}{(\text{NTU})}$ $\frac{10\% \text{ or } 1 \text{ NTU}}{1}$	unp () ) Other/Spe $7$ ( $\gamma$ )N (specif 7 $1 - 5$ , $1$ (specif $10\% \text{ or } 0.1 \text{ mg/l}^*$ 6, 51 6, 51 6, 51 5, 91 5, 61	M) oft- (mV [10 m] -53. -50 -28 -28 -8. <b>Q</b> . 2
Pu: Pu Minuté Volume of Wa Dia V Time 1510 1525 1525 1525 1530	mp Start Time imp Stop Time es of Pumping ater Removed I Well Go Dry? Water Quality M Pump Rate (L/min.)	/ (c. 30 85 5. 69 c. 1/1 Y N eter Type(s) / St Total Gailons Removed 0.33 0. 66 0.99 1.32 1.65 1.98	erial Numbers: Water Level (ft TIC) 13.97 14,32 14,44 14,74 14,94 14,94	Tomp. (Gotsius) [3%]*  16,46 16,46 16,58 16,58 16,49 16,35	Peristattic Purm Purmp Type: Samples collec CMP PH [0.1 units]* PH PH PH P P P P P P P P	p (X) Suit Sec P ted by come me Huch Sp. Cond. (mS/cm) [3%]* 0.869 0.869 0.869 0.869 0.864 0.864 0.864 0.864 0.864 0.864	$\frac{\text{omensible Pump}}{\text{Inod as evacuation}}$ $\frac{\text{Tarbidity}}{(\text{NTU})}$ $\frac{10\% \text{ or } 1 \text{ NTU}}{1}$	unp () ) Other/Spe 7 (Y) N (specification) = 00 (mg/l) (mg/l) (10% or 0.1 mg/l)	y) oft (mV [10 m] -533. -500 -28 -28 -8. 0.2
Pus Pu Minuté Volume of Wa Dia V TIme 1570 1570 1525 1525 1530 1535 1540 1540	rmp Start Time Imp Stop Time es of Pumping ater Removed I Well Go Dry? Mater Quality M Pump Rate (L/min.) 250	/ (c. 30 8.5 5. 69 c. //1 Y N eter Type(s) / St Total Gailons Removed 0.33 0.66 0.99 1.32 1.65 1.98 2.31 2.64	erial Numbers: Water Levei (ft TIC) 13.97 14,97 14,99 14,99 14,99 14,99 14,99 15,13 15,39 15,39	Tomp. (Gotsius) [3%]*  16,46 16,46 16,40 16,58 16,58 16,35 16,35 16,36 16,24	Poristatic Purm Pump Type: Samples collec $\mathcal{ZMP}$ $\mathcal{PH}$ $[0.1 units]^{\bullet}$ $\mathcal{P}$	$\begin{array}{c} (X) & Suite \\ Second P \\ \hline \\ Second P \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\frac{\text{omensible Pump}}{\text{Inod as evacuation}}$ $\frac{\text{Tarbidity}}{(\text{NTU})}$ $\frac{10\% \text{ or } 1 \text{ NTU}}{1}$	unp () ) Other/Spe 7 ( $Y$ )N (specif 7 $4$ $5$ $6$ $7$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$	M) oft- (mV [10 m] -53. -50 -28 -28 -8. <b>Q</b> . 2
Put Pu Minute Volume of Wa Dia V Time 1510 1510 1525 1525 1530 1535 1530 1535 1530 1535 1530 1535 1530 1535 1530	np Start Time Imp Stop Time es of Pumping ater Removed I Well Go Dry? Nater Quality M Pump Rate (U/min.) 250	/ (c. 30 8.5 5. 69 c. //1 Y N eter Type(s) / St Total Gailons Removed 0.33 0.66 0.99 1.32 1.65 1.98 2.31 2.64	erial Numbers: Water Levei (ft TiC) 13.97 14.97 14.74 14.74 14.94 15.13 15.36 15.36 15.42 er (three consec	Tomp. (Gotsius) [3%]*  16,46 16,46 16,40 16,58 16,58 16,35 16,35 16,36 16,24	Poristatic Purm Pump Type: Samples collec $\mathcal{ZMP}$ $\mathcal{PH}$ $[0.1 units]^{\bullet}$ $\mathcal{P}$	$\begin{array}{c} (X) & Suite \\ Second P \\ \hline \\ Second P \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	pomersible Pump ( h r p E thod as evacuation E + D D P Turbidity (NTU) (10% or 1 NTU) <sup>*</sup> T L L L L L L L L	unp () ) Other/Spe 7 ( $Y$ )N (specif 7 $4$ $5$ $6$ $7$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$	(V) c+c
Put Pu Minute Volume of Wa Dia V Time 1510 1510 1525 1525 1530 1535 1530 1535 1530 1535 1530 1535 1530 1535 1530	rnp Start Time rnp Stop Time es of Pumping ater Removed I Well Go Dry? Water Quality M Pump Rate (L/min.) 250 100 100 100 100 100 100 100 1	/ (2.30 8.5 5.69.6.1/1 Y N eter Type(s) / St Total Gallons Removed 0.33 0.66 0.99 1.32 1.65 1.98 2.31 2.64 ch field parameter	erial Numbers: Water Levei (ft TiC) 13.97 14.97 14.74 14.74 14.94 15.13 15.36 15.36 15.42 er (three consec	Tomp. (Gotsius) [3%]*  16,46 16,46 16,40 16,58 16,58 16,35 16,35 16,36 16,24	Poristatic Purm Pump Type: Samples collec $\overline{CMP}$ $\overline{PH}$ $\overline{0.1 units}^{P}$ $\overline{7113}$ $\overline{7109}$ $\overline{7109}$ $\overline{7102}$ $\overline{7102}$ $\overline{7102}$ $\overline{7102}$ $\overline{7102}$ $\overline{7104}$	$\begin{array}{c} (X) & Suite \\ Second P \\ \hline \\ Second P \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	pomersible Pump ( h r p E thod as evacuation E + D D P Turbidity (NTU) (10% or 1 NTU) <sup>*</sup> T L L L L L L L L	unp () ) Other/Spe 7 ( $Y$ )N (specif 7 $4$ $5$ $6$ $7$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$	M) of (mV [10 m) - 53. - 50. - 28. - 8. 0. 2

SAMPLE DESTINATION

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Laboratory: <u>565</u> Defivered Via: <u>レアノ</u> Airbil #\_\_\_\_\_

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In the Field Sampling Coordinator: 1

G:///ORIGES/oundwater/554199Attachmen/D-2

Well No. 95-20

Site/GMA Name <u>GMAI-GE PITTS Reld</u> Sampling Personnel

Date

10/15/08 Weather Sunny 60's

)

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) (3%)*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1550	250	2.97	15,80	16.18	7,08	0,885	1	5,77	17.8
1555	1	3.30	16.19	14.14	7.08	0,889		5,98	26.6
1600		3.63	16.24	16,13		0.890		6.06	27,6
1610		4.29	16.51	16.11	7,11	0.893	1	6.31	30,8
1615	,		16,72	10.06	7,14	6,894		6.22	34.1
1618	$\bigvee$	4.82	16.95	15,94	7,16	0.895	1	6.18	35.0
/									
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	1								
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\* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. OBSERVATIONS/SAMPLING METHOD DEVIATIONS

PAGE OF 2

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	lo,			. Sampli	ing Personnel	DANZUC		Connell	······
	ackground (ppm)			- '		10/15/08	6015		
Well	Headspace (ppm)			. ·	Anosinel.	Sconut		1020RD	. / /
	RMATION						Sample Time	toas on	10/16/
	ence Point Marked?	(Ÿ) N					Sample ID	17A	
Height	of Reference Point	<u></u>	Meas. From	BGS	-		Ouplicate ID		
	Weii Diameter			0 i c			MS/MSD		
	reen Interval Depth		Meas. From	<u> </u>	-		Split Sample ID		
	Water Table Depth Well Depth		Meas. From Meas, From	-1+0-	•	Required	Analytical	Parameters:	Collected
Lena	th of Water Column			Laxka.Y	-	( )		(Std. list)	()
-	me of Water in Well	100		- the second sec		( 3	VOCs	(Exp. list)	()
intake Dep	oth of Pump/Tubing	~15	Meas. From			( )		OCs	( )
						( )		(Total)	()
	Point Identification:					(X)		Dissolved) ganics (Total)	$\langle X \rangle$
	Inner (PVC) Casin of Outer (Protective)	-				() ()		ganics (Total) nics (Dissolved)	()
•	of Outer (Protective) : Ground Surface	i nashiriy				()	-	te (Dissolved)	()
	• •••••					()	PAC Cyanic	le (Dissolved)	( )
Redevelop	7 Y 🕅					(	PCDD	s/PCDFs	( )
		. /	,			(,		s/Herbicides	()
		10/15	1/0/1	6		( '		Attenuation (Specify)	()
EVACUATI		• •				(	Guidi	(opecity)	( )
	Pump Start Time	1000	183	5-					
	Pump Stop Time	1110		16	Evacuation Met	hod: Bailer (	) Bladder P	ump (X)	
	inutes of Pumping	And the second s	• • •	40	Peristallic Pum		mensible Pump (		ecify ( )
Volume	of Water Removed	9.0gall	<u>^&gt;</u>				hod as evacuation	1 11 11	and the second second
	Did Well Go Dry?	Y (N)			Samples collect	ied by same me	UIOU AS OVACUADOS	"PA Vez	
				1/17			1	\ Y \ √~	June 1
	Water Quality N	/leter Type(s) / S	erial Numbers:	YSI	556 N	115 #3	init, H	uch 2100	
	Water Quality N	fleter Type(s) / S	erial Numbers:	151	556 M	· · · ·	sunt H	uch 2100	<u>P</u>
	Pump	Totał	Water	Temp.	<u>556</u> pH	"Sp. Cond.	unt H	uch 2100	ORP
Time	Pump Rate	Totał Gallons	Water Level	Temp. (Celsius)	рН	,Sp. Cond. (mS/cm)	(NTU)	<u>, r. h. 2100</u> 00 (mg/l)	ORP (mV)
	Pump	Totał	Water Lovel (ft TIC)	Temp. (Celsius) [3%]*		Sp. Cond. (mS/cm) [3%]*	(NTU) [10% or 1 NTU]*	00 (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1305	Pump Rate	Totał Gallons	Water Level (ft TIC) 8,55	Temp. (Celsius)	рН	,Sp. Cond. (mS/cm)	(NTU) [10% or 1 NTU]" 363	<u>, r. h. 2100</u> 00 (mg/l)	ORP (mV)
	Pump Rate	Totał Gallons	Water Level (ft Tic) 8,55 9,31	Temp. (Celsius) [3%]*	рН	Sp. Cond. (mS/cm) [3%]*	(NTU) [10% or 1 NTU]*	00 (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1305 1308	Pump Rate	Totał Gallons	Water Level (ft:TIC) 8,55 9,31	Temp. (Celsius) [3%]*	рН [0.1 units]* —	Sp. Cond. (mS/cm) [3%]*	(NTU) [10% or 1 NTU]" 363	00 (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1305 1308 1309	Pump Rate √(L/min.) 	Total Gallons Removed 	Water Level (ft Tic) 8,55 9,31 9,51 9,52	Тетр. (Gobius) [3%]* — — — [9.44]	рН [0.1 units]* ~ - - - - - - - - - - - - - - - - - -	Sp. Cond. (mS/cm) [3%]*	(NTU) 110% or 1 NTUP 363 48 49	00 (mg/l) [10% or 0.1 mg/l]* - Lo, ZO	ORP (mV) [10 mV]* 
1305 1308	Pump Rate M(Umin.) 480 1.180	Total Gallons Removed  1.9D 2.54	Water Lovel (12 TIC) 8,55 9,31 9,31 9,62 9,91	Temp. (Geisius) [3%]* 	рН [0.1 units]* ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Sp. Cond. (mS/cm) [3%]* - - 1.3.494 1.397	(NTU) 110% or 1 NTUP 363 48 44 37	$\frac{100}{(mg/l)}$ $\frac{100}{(mg/l)}$ $\frac{1000}{(mg/l)}$ $\frac{1000}{(mg/l)}$ $\frac{1000}{(mg/l)}$	ORP (mV) [10 mV]*  -18.8 -21.4
<u>1305</u> 1308 1309	Pump Rate M(Umin.) 480 1.180 480	Total Gallons Removed             	Water Level (ft Tic) 8,55 9,31 9,31 9,62 9,91 10,51	Temp. (Colsius) [3%]*  19.44 19.03 12.94	рН [0.1 units]* - - - - - - - - - - - - -	, sp. Cond. (ms/cm) [3%]" - - [3%]" - - [3%]" - - - [3%]" - - - - - - - - - - - - - - - - - - -	(NTU) 110% or 1 NTUP 363 48 44 37 30	$\begin{array}{c} 1. h \\ \hline \hline$	ORP (mV) [10 mV] - - - - - - - - - - - - - - - - - - -
1305 1300 1310 1315 1320 1325	Pump Rate M(Umin.) 480 1.180 4.80 4.80	Total Gallons Removed  1.9D 2.54 3.17 3.17 3.8D	Water Level (18 TIC) 8,55 9,31 9,31 9,91 10,51 11,05	Temp. (Gelsius) [3%]*  19.44 19.03 12.94 18.90	рН [0.1 units]*          -	Sp. Cond. (mS/cm) [3%]* - 1,3*,94 1,397 1,397 1,411 1,413	(NTU) 110% or 1 NTUP 363 48 46 44 37 30 27 27	$\begin{array}{c} 1. h \\ \hline 2100 \\ \hline 00 \\ (mg/l) \\ 10\% \text{ or } 0.1 mg/l^{+} \\ \hline - \\ - \\$	0RP (mV) [10 mV]* - - - - - - - - - - - - - - - - - - -
1305 1300 1310 1315 1320 1325 1330	Pump Rate √(L/min.) 480 1180 480 480 480 480 300	Total Gallons Removed  1.9D 2.54 3.17 3.17 3.80 4.20	Water Level (ft TIC) 8.55 9.31 9.62 9.91 10.51 10.51 11.05	Tomp. (Gobius) [3%]* - 19.44 19.03 12.44 18.40 18.82	рН [0.1 units]*             	sp. Cond. (ms/cm) [3%]* - 1.394 1.397 1.397 1.397 1.911 1.913 1.933	(NTU) 110% or 1 NTUP 363 48 44 37 30 37 30 37 49	$\begin{array}{c} 1. h \\ \hline 2100 \\ \hline 00 \\ (mg/l) \\ \hline 10\% \text{ or } 0.1 mg/l^{1} \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\$	0RP (mV) [10mV]P - - - - - - - - - - - - - - - - - - -
1305 1300 1310 1315 1320 1325	Pump Rate M(Umin.) 480 1.180 4.80 4.80	Total Gallons Removed  1.9D 2.54 3.17 3.17 3.8D	Water Level (18 TIC) 8,55 9,31 9,31 9,91 10,51 11,05	Temp. (Gelsius) [3%]*  19.44 19.03 12.94 18.90	рН [0.1 units]*          -	Sp. Cond. (mS/cm) [3%]* - 1,3*,94 1,397 1,397 1,411 1,443	(NTU) 110% or 1 NTUP 363 48 46 44 37 30 27 27	$\begin{array}{c} 1. h \\ \hline 2100 \\ \hline 00 \\ (mg/l) \\ 10\% \text{ or } 0.1 mg/l^{+} \\ \hline - \\ - \\$	0RP (mV) [10 mV]* - - - - - - - - - - - - - - - - - - -
1305 1308 1310 1315 1325 1335	Pump Rate √(L/min.) 480 1180 480 480 480 480 300	Total Gallons Removed  1.9D 2.54 3.17 3.80 4.20 4.20 4.59	Water Lovel (12 TIG) 8,55 9,31 9,31 9,62 9,91 10251 11,05 12,30 12,64	Temp. (Coisius) [3%]* - 19.44 19.03 12.94 18.90 18.82 18.82	рН [0.1 units]* - - - - - - - - - - - - -	Sp. Cond. (mS/cm) [3%]" - 1,3*,94 1,397 1,397 1,411 1,411 1,443 1,533 1,539	(NTU) 110% or 1 NTUP 363 4/8 4/4 37 30 27 4/9 80	$\begin{array}{c} 1. h \\ \hline \hline DO \\ (mg/l) \\ [10\% or 0.1 mg/l]^{\bullet} \\ \hline \hline \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\$	0RP (mV) [10mV]P - - - - - - - - - - - - - - - - - - -
1305 1308 1315 1325 1325 1335 The stabilit	Pump Rate (////////////////////////////////////	Total Gallons Removed - 1.9D 2.54 3.17 3.17 3.80 4.20 4.20 4.59 cch field paramet	Water Lovel (12 TTC) 8,55 9,31 9,31 9,91 10,51 11,05 12,04 er (three conservations)	Temp. (Coisius) [3%]* - 19.44 19.03 12.94 18.90 18.82 18.82	рН [0.1 units]* - - - - - - - - - - - - -	Sp. Cond. (mS/cm) [3%]" - 1,3*,94 1,397 1,397 1,411 1,411 1,443 1,533 1,539	(NTU) 110% or 1 NTUP 363 4/8 4/4 37 30 27 4/9 80	$\begin{array}{c} 1. h \\ \hline \hline DO \\ (mg/l) \\ [10\% or 0.1 mg/l]^{\bullet} \\ \hline \hline \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\$	0RP (mV) [10mV]P - - - - - - - - - - - - - - - - - - -
1305 1308 1315 1325 1325 1335 The stabilit	Pump Rate (////////////////////////////////////	Total Gallons Removed - 1.9D 2.54 3.17 3.17 3.80 4.20 4.20 4.59 cch field paramet	Water Lovel (12 TTC) 8,55 9,31 9,31 9,91 10,51 11,05 12,04 er (three conservations)	Temp. (Coisius) [3%]* - 19.44 19.03 12.94 18.90 18.82 18.82	рН [0.1 units]* - - - - - - - - - - - - -	Sp. Cond. (mS/cm) [3%]" - 1,3*,94 1,397 1,397 1,411 1,411 1,443 1,533 1,539	(NTU) 110% or 1 NTUP 363 4/8 4/4 37 30 27 4/9 80	$\begin{array}{c} 1. h \\ \hline \hline DO \\ (mg/l) \\ [10\% or 0.1 mg/l]^{\bullet} \\ \hline \hline \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\$	0RP (mV) [10mV]P - - - - - - - - - - - - - - - - - - -
1305 1308 1315 1325 1325 1335 The stabilit	Pump Rate (////////////////////////////////////	Total Gallons Removed - 1.9D 2.54 3.17 3.17 3.8D 4.2D 4.2D 4.59 sch field paramet METHOD DEVU	Water Lovel (12 TTC) 8,55 9,31 9,31 9,91 10,51 11,05 12,04 er (three conservations)	Temp. (Coisius) [3%]* - 19.44 19.03 12.94 18.90 18.82 18.82	рН [0.1 units]* - - - - - - - - - - - - -	Sp. Cond. (mS/cm) [3%]" - 1,3*,94 1,397 1,397 1,411 1,411 1,443 1,533 1,539	(NTU) 110% or 1 NTUP 363 4/8 4/4 37 30 27 4/9 80	$\begin{array}{c} 1. h \\ \hline \hline DO \\ (mg/l) \\ [10\% or 0.1 mg/l]^{\bullet} \\ \hline \hline \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\$	0RP (mV) [10mV]P - - - - - - - - - - - - - - - - - - -

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### GROUNDWATER SAMPLING LOG

Well No. 17A

Sile/GMA Name GMAI/GG PIFFSReld Sampling Personnel DA-2 <u>(</u> Date 10/15/08 Weather Sonny 6015

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WELL INFORMATION - See Page 1

* $1350 300 5.78 - 18.57 7.71 1.488 51 7.72 = 1355 300 6.18 - 18.39 7.74 1.466 104 7.72 = 1400 300 6.57 - 18.12 7.77 1.461 138 8.16 = 1405 300 6.97 16.02 17.39 7.79 1.455 190 8.03 = 1410 300 7.37 139 17.05 7.76 1.473 1000 7.94 = 1415 - $	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$		Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) {10 mV
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5.39 13.74 18.60 7.73 1.493 33 7.76 5.5 5.78 - 18.57 7.74 1.488 51 7.72 7.1 6.18 - 18.39 7.74 1.466 104 7.72 5.0 6.57 - 18.12 7.77 1.461 138 8.16 4.6 6.97 16.02 17.39 7.79 1.455 190 8.03 5.1 1.37 139 17.05 7.76 1.473 1000 7.94 4.0 6.11, 2008 Re-Attempt to sample		1340	300	4.99	13.04	18,70	7.74	1.473	30	7,58	1.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1345	300	5.39	13.70	18.60	·7.73	1.493	~ -	7.76	5.5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	×	1350	300	5.78		18.57	7.71	1,488	51	7,72	7.1
* 1405 300 6.97 16.02 17.39 7.79 1.455 190 8.03 1 1410 300 7.37 1.1.39 17.05 7.76 1.473 1000 7.94 4 1415 Detaber 16th, 2008 re-Attempt to sample	6.97 16.02 17.39 7.79 1.455 190 8.03 5.1 1.37 139 17.05 7.76 1.473 1000 7.94 4.0 6M, 2008 re-Attempt to sample		1355	300	6.18	~	18.39	7-7-4		104	7,72	<b>5</b> ,C
1410 300 7.37 1.1.39 17.05 7.76 1.473 1000 7.94 4 1415 Detober 16th, 2008 re-Attempt to sample 1025 14.46 1658 7.71 1.460 295 8.36 9	1.37 139 17.05 7.76 1.473 1000 7.94 4.0 Mm, 2008 re-Attempt to Sample 14.46 1658 7.71 1.460 295 8.36 95.		1400	300	6.57		18.12	7,77		138	8.16	4,6
1415 Detober 16th, 2008 re-Attempt to sample 1025 14.46 1658 7.71 1.460 245 8.36 9	14.46 1658 7.71 1.460 245 8.36 95.	×	1405	300	6.97	16.02	17.39	7,79	1,455	190	8.03	51
Detuber 16th, 2008 re-Attempt to sample 1025 14.46 1658 7.71 1.460 245 8.36 9	14.46 1658 7.71 1.460 245 8.36 95.		1410	3.00	7.37	1.0.39	17.05	7,76	1.473	1000	7,94	4.0
1025 14.46 1658 7.71 1.460 245 8.36 9	14.46 1658 7.71 1.460 245 8.36 95		1415							·		
		91	DCto	ber	16th	2008	Se-Aith	empt	10 5	Sampo	Le	
			1025			14.46	16.58	7.71	1,460	295	8.36	<u>95.</u>
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							cutive readings	collected at 3- to	5-minute interv	als) is listed in eac	h column heading.	
* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.							i hari		<u> </u>	1 Jain	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	THOD DEVIATIONS	- .2_	1 Asen	al an		hole	$\frac{c}{c} = \frac{c}{c} 0$	<u>1. 11.</u>	<u></u>	mp/ n/4		
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	THOD DEVIATIONS	×	<u>(J_21/A</u> L	<u>er pasi</u>	57 C/ FC	- MORTO	pa cre-	()(-1)				
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	THOD DEVIATIONS		•						70			
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	nopee to level below the pump/ top p to bottom of well	AGE_P	iltsfield_General_Con	fidentia/Reports and P	resentations\FSP_QAPF	UpdateREV04\Atlachr	nent D-2GWsampform	ORAFTv1,xla		an I	1 .	
OBSERVATIONS/SAMPLING METHOD DEVIATIONS * (Daver Level droped to level below the pump/ top + Lawred pump to bottom of well	THOD DEVIATIONS roped to level below the pump/ top p to bottom of well 10/16 Lyman recrecc = 19,70	NGE_P	ntsädid_General_Con	Ildentia/Reports and P	resentations\FSP_CAPF	• UpdateREV04\Atlachr	nent D-2GWsampform	DRAFTv1.xlu		20 6	id after	

PAGE LOF 2

# GROUNDWATER SAMPLING LOG

			5		Site/GMA Nan	ne&	GMAI		
Key N			·	Sam	pling Personn	ei	Eurc		
	ickground (ppr				· Da	to ( c	80/5/11		
Weil }	<del>lesciepace</del> (ppr	n)	·····	·	Weath	er <u>Svan</u>	1y - boo m	10 503	
WELL INFO	PHATYON						•	•	~
	ice Point Marke	d? (Y) N					Sample Ter		<u>}</u>
	A Reference Po		Mann Con	n GROUM	<b>A</b>	:	Sample		
3	Well Diamet			1 <u>0 000000</u>			Duplicate I		- <u>DUP-UI</u>
Scn	en Interval Dep		Meas. From	n T-K			MS/MS		
v	Vator Table Dop	th 13.54	Meas. From				Spilt Sample	<u> </u>	*
	Well Dep		Meas. From	n <u> </u>		Required	Analytic	al Parameters:	Collecte
	of Water Colum					(~)		Cs (Std. äst)	(K)
	e of Water in Wa		-	+		( S	voc	a (Exp. list)	( )
	h of Pump/Tubin	g <u>15.34</u>	Mees, From	110		( بخر )		SVOCs	(入)
Reference Po	int Identification	•				( )		Ba (Totai)	( )
	wer (PVC) Casi					(×)		(Dissolved)	(
	Outer (Protective					()		organics (Total) anics (Dissolved)	()
Grade/BGS: (	Ground Surface	-				()	-	nide (Dissolved)	
<b>n</b>						()		lide (Dissolved)	
Redevelop?	Y (N)					()	-	Ds/PCDFs	()
	$\cup$					()	Pesticid	es/Herbicides	( )
						()	Natura	Attenuation	()
EVACUATION	INFORMATIO	4				()	Othe	r (Specify)	()
F , F Minu	<sup>D</sup> ump Start Time <sup>D</sup> ump Stop Time utes of Pumping	45 (1		ł	Evacuation M Peristatic Pun			Pump() () Other/S	inenify (2)
F , F Mini Volume of \	<sup>s</sup> ump Start Time <sup>s</sup> ump Stop Time	45 (1	<b>:45</b> 5.0gallona		Peristallic Pun Pump Type: Samples colle	np ( ) Su <u>GEO P</u> U cted by same me	ibmensible Pump ເກມີ athod as evacuatio	() Other/S	ipecity (K) caty)
F , F Mini Volume of \	Pump Start Time Pump Stop Time utes of Pumping Water Removed id Well Go Dry?	45	5.0gallona	YSE 55	Peristallic Pun Pump Type: Samples collect	np () Su <u>GEO P</u> U cted by same me O S c O 3	$space{2} + \frac{1}{2} + 1$	() Other/S	
F , F Mini Volume of \	Pump Start Time Pump Stop Tane uites of Pumping Water Removed id Well Go Dry?	H (1 95 H 22 5 Y (N) Aster Type(s) / So	5. Ogallons Briel Numbers:	YSE 55 HACH	Peristallic Pun Pump Type: Samples collect GMPS 2100 P	$\frac{O}{CCO} = \frac{O}{CCO} = \frac{O}$	$space{2} + \frac{1}{2} + 1$	() Other/S	
F , F Mini Volume of \	Pump Start Time Pump Stop Time utes of Pumping Water Removed id Well Go Dry?	Hito (1           95           H-22 5           Y (N)           Aeter Type(s) / Se           Total	5.0gallons erial Numbers: Water	YSE 55 HACH 3 Temp.	Peristallic Pun Pump Type: Samples collect	$\begin{array}{c} \text{np} () & \text{St} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{PU} \\ \underline{Cted} & \text{by same red} \\ \hline 0 & \underline{S} & \underline{CO} & \underline{3} \\ \underline{H} & \underline{\neg} & \underline{G} & \underline{SC} \\ \underline{J} & \underline{Sp} & \underline{Cond} \\ \underline{J} & \underline{Sp} & \underline{Sp} \\ \underline{Sp} & \underline{Sp} & \underline{Sp} \\ \underline{Sp} & \underline{Sp} & \underline{Sp} \\ \underline{Sp} \\$	ibmensible Pump inp athod as evacuatio 392 AE 10-03 Turbidity	() Other/S n? () N (spe DO	ORP
F , F Mini Volume of V D	Pump Start Time Pump Stop Tane utes of Pumping Water Removed id Well Go Dry? Water Quality M	H (1 95 H 22 5 Y (N) Aster Type(s) / So	5. Oga 110 Ma erial Numbers: Water Level	YSE 55 HACH c Temp. (Cetatus)	Peristaltic Pum Pump Type: Samples collection GMPS 2400 P pH	$\begin{array}{c} \text{np} () & \text{St} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{Sp} \\ \underline{COO} & \underline{Sp} \\ \underline{Cond} \\ \underline{Sp} & \underline{Cond} \\ \underline{(mS/em)} \end{array}$	ibmersible Pump inp athod as evacuatio 392 AE 10-03 Turbidity (NTU)	() Other/S in? () N (spe DO (mg/l)	ORP (mV)
F . F Minu Volume of V D Time	Pump Start Time Pump Stop Time utes of Pumping Water Removed id Well Go Dry? Water Quality N Pump Rate (Limin.)	Hit (1 45 it 22 5 Y (N) Aster Type(s) / Su Total Gallons Removed	5. Ogallons erial Numbers: Water Level (ft TIC)	YSE 55 HACH Tomp. (Coisius) [3%]	Peristallic Pun Pump Type: Samples collect GMPS 2100 P	$\begin{array}{c} \text{np} () & \text{St} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{PU} \\ \underline{Cted} & \text{by same red} \\ \hline 0 & \underline{S} & \underline{CO} & \underline{3} \\ \underline{H} & \underline{\neg} & \underline{G} & \underline{SC} \\ \underline{J} & \underline{Sp} & \underline{Cond} \\ \underline{J} & \underline{Sp} & \underline{Sp} \\ \underline{Sp} & \underline{Sp} & \underline{Sp} \\ \underline{Sp} & \underline{Sp} & \underline{Sp} \\ \underline{Sp} \\$	ibmersible Pump inp ethod as evacuatio 92 AE 10-03 Turbidity (NTU) [10% or 1 NTUP	() Other/S in? () N (spe DO (mg/l)	ORP (mV)
F Minu Valume of V D Thme	Pump Start Time Pump Stop Tame utes of Pumping Water Removed id Well Go Dry? Water Quality N Pump Rate (Limin.) ZCO	Aster Type(s) / Se Total Gallone Removed TNCTAL	5. Ogallons erial Numbers: Water Level (ft TIC) //.6/	YSE 55 HACH Temp. (Cetatus) [3%]*	Peristatic Pun Pump Type: Samples colles 6 MPS 2 (00 p pH i0.1 units)*	np ( ) St <u>GEO PU</u> cted by same me <u>O S CO 3</u> <u>H</u> <u>1650</u> (mS/cm) <u>3%</u> p	ibmersible Pump inp athod as evacuatio 92 AE 10-cc Turbidity (NTU) [10% or 1 NTUP ] 2	() Other/S in? () N (spe DO (mg/l) [10% or 0.1 mg/l	CSFY) ORP (mV) [10 mV]*
F Minu Volume of V D Thme C935	Pump Start Time Pump Stop Tame utes of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (L/min.) ZCO	Acter Type(s) / Su Total Gallone Removed ThotAL ////	5. Ogallons erial Numbers: Water Level (ft TIC) //.6/ 4	YSE 55 HACH Tomp. (Coisius) [3%]	Peristaltic Pum Pump Type: Samples collection GMPS 2400 P pH	$\begin{array}{c} \text{np} () & \text{St} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{PU} \\ \underline{CeO} & \underline{Sp} \\ \underline{COO} & \underline{Sp} \\ \underline{Cond} \\ \underline{Sp} & \underline{Cond} \\ \underline{(mS/em)} \end{array}$	ibmersible Pump inp ethod as evacuatio 92 AE 10-03 Turbidity (NTU) [10% or 1 NTUP	() Other/S in? () N (spe DO (mg/l)	ORP (mV)
F Minu Volume of V D Thme C935	Pump Start Time Pump Stop Tame utes of Pumping Water Removed id Well Go Dry? Water Quality N Pump Rate (Limin.) ZCO	Aster Type(s) / Se Total Gallone Removed TNCTAL	5. Ogallons erial Numbers: Water Level (ft TIC) //.6/	YSE 55 HACH Temp. (Cetatus) [3%]*	Peristatic Pun Pump Type: Samples colles 6 MPS 2 (00 p pH i0.1 units)*	np ( ) St <u>GEO PU</u> cted by same me <u>O S CO 3</u> <u>H</u> <u>1650</u> (mS/cm) <u>3%</u> p	ibmersible Pump inp athod as evacuatio 92 AE 10-cc Turbidity (NTU) [10% or 1 NTUP ] 2	() Other/S in? () N (spe DO (mg/l) [10% or 0.1 mg/l	CSFY) ORP (mV) [10 mV]*
F Minu Valume of V D TIme	Pump Start Time Pump Stop Tame utes of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (L/min.) ZCO	Acter Type(s) / Su Total Gallone Removed ThotAL ////	5. Ogallons erial Numbers: Water Level (ft TIC) //.6/ 4	YSE 55 <u>+Act</u> Temp. (Cetatus) [3%]* - [2.38 12.32	Peristaltic Pum Pump Type: Samples collection GMPS 2400 P pH i0.1 units[* 7.28 7.25	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \hline G \in O \ P U \\ \hline G \in O \ P U \\ \hline C \text{ted} \ by \ same \ m \\ \hline 0 \ S \ C \ O \ S \\ \hline 16 \ S \ C \ O \ S \\ \hline 0 \ S \ C \ S \\ \hline 0 \ S \ S \ S \\ \hline 0 \ S \ S \ S \\ \hline 0 \ S \ S \ S \\ \hline 0 \ S \ S \ S \\ \hline \end{array}$	ibmersible Pump inp athod as evacuatio 392 AE 10-0.5 Turbidity (NTU) (10% or 1 NTUP 12 LÖ	() Other/S in? () N (spe (mg/l) [10% or 0.1 mg/l ~ 7. 42 5. 63	ORP (mV) [10 mV]* -183.4 ~ K5.0
F Mini Volume of V D Thme 0935 0935	Pump Start Time Pump Stop Tame lates of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (L/min.) 200 (1	Actor Type(s)/Su Total Gallone Removed INCTAL /UCO -2000	5. Ogallons erial Numbers: Water Level (ft TIC) //.6/ 4	YSE 55 <u>AACH</u> Tomp. (Coisius) [3%]* - 12.38 12.32 12.32	Peristatic Pun Pump Type: Samples collect G MPS 2(GO P pH (0.1 units)* 7.28 7.28 7.25	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \hline G \in O & PU \\ \hline G \in O & PU \\ \hline C \text{ted by same me} \\ \hline ( & S \subset O & 3 \\ \hline H & & \neg G \\ \hline ( & S C \text{ ond}, \\ \hline ( & M \text{ ins/cm}) \\ \hline G & & \neg \\ \hline ( & S & C \\ \hline O & & S & C \\ \hline ( & S & 7 \\ \hline O & & S & 7 \\ \hline ( & S & 7 \\ \hline O & & S & 7 \\ \hline ( & S & 7 \\ \hline O & & S & 7 \\ \hline \end{array}$	ibmersible Pump inp athod as evacuatio 392 AE 10-0.5 Turbidity (NTU) (10% or 1 NTUP 12 LÖ	() Other/S n? () N (spe (mg/l) (10% or 0.1 mg/l)  7.42 5.63  	Cafy) ORP (mV) [10 mV]* 
F Minu Volume of V D Thme 0935 0935 0940 0945	Pump Start Time Pump Stop Time utes of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (L/min.) 2 CO (/	Actor Type(s) / Su Total Gailone Removed ThotAL /UCO 2000 3000	5. Ogallons erial Numbers: Water Level (ft TIC) //.6/ 4 4 4 4	YSE 55 <u>+Act</u> Temp. (Celsius) [3%]    2.38   2.32   2.32   2.32   2.19	Peristatic Pun Pump Type: Samples collection G MPS 2(CO) P pH $(0.1 units)^{\circ}$ 7.28 7.25 7.24 7.24 7.31	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \underline{GeO} & PU \\ \hline GeO & PU \\ \hline O & SCO & 3 \\ \hline H & - \\ \hline GeO &$	ibmersible Pump inp athod as evacuatio 392 AE 10-0.5 Turbidity (NTU) (10% or 1 NTUP 12 LÖ	() Other/S n? () N (spe (mg/l) (10% or 0.1 mg/l  7. 42 5. 63 41, 48 3 - 52	ORP (mV) [10mV]* -183.4 -183.4 -185.0 -184.7 -187.9
Minu Volume of V D Thme 0430 0435 0440 0445 0445 0445 0445	Pump Start Time Pump Stop Time utes of Pumping Water Removed id Well Go Dry? Water Quality N Pump Rate (Limin.) 2 CO (1 (1 (1)	Acter Type(s) / Su Total Gallone Removed INCTAL /UCO 2000 3000 SOD	5. Ogallons erial Numbers: Water Level (ft TIC) 11.61 4 4 4 4 4 4 4	YSE 55 <u>AACH</u> Tomp. (Coisius) [3%]* - 12.38 12.32 12.32 12.32 12.19 12.19 12.17	Peristalic Pum Pump Type: Samples collect G MPS 2(00 P pH i0.1 units)* 7.28 7.28 7.25 7.24 7.24 7.24 7.24	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \underline{GeO} & PU \\ \hline \\ \underline{GeO} & PU \\ \hline \\ $	ibmersible Pump inp athod as evacuatio 392 AE 10-0.5 Turbidity (NTU) (10% or 1 NTUP 12 LÖ	() Other/S n? () N (spe DO (mg/l) (10% or 0.1 mg/l  7.42 5.63 4, 08 3.52 3.23	Cafy) ORP (mV) -183.4 -183.4 -183.9 -184.7 -187.9 -175-1
Minu Volume of V D Thme 0935 0935 0935 0940 0935 0945 0950 0955 0.00	Pump Start Time Pump Stop Tame utes of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (Limin.) 200 (1 (1 (1 (1) (1) (1) (1) (1) (1) (1) (1	HIP       (1)         Aster Type(s)/Se         Total         Gallone         Removed         INOTAL         JUCO         ZOU         ZOU         SOU         GOU	5. Oga 110 ms erial Numbers: Water Level (ft TIC) 11.61 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	YSE 55 <u>ACH</u> Tomp. (Colsius) [3%]  [2.38 12.32 12.32 12.32 12.19 12.17 12.17	Peristalic Pun Pump Type: Samples colles 6 MPS 2 (00 P pH i0.1 units)* 7.28 7.28 7.25 7.24 7.24 7.31 7.42	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \underline{GeO} \ PU \\ \underline{GeO} \ PU \\ \hline \\ \text{cted by same me} \\ 0 & \underline{ScO} & \underline{3} \\ \underline{H} & \underline{HGSC} \\ \underline{Sp. Cond.} \\ (mSiem) \\ \underline{3\%}^{T} \\ \underline{-} \\ 0.5 & \underline{C} \\ 0 & \underline{571} \\ 0 & \underline{577} \\ 0 & \underline{577} \\ 0 & \underline{579} \\ \underline{O} & \underline{580} \\ 0 & \underline{581} \\ \end{array}$	abmensible Pump inp athod as evacuation 392 AE 30-co.5 Turbidity (NTU) (10% or 1 NTUP 12 10	() Other/s n? () N (spe DO (mg/l) [10% or 0.1 mg/l  7.42 5.63 41, 08 3.52 3.23 2.69	Cafy) ORP (mV) [10mV]* -183.4 -183.4 -185.0 -184.7 -187.9 -175.1 -179.2
Minu Volume of V D Thme 0430 0435 0440 0455 0445 0455 0455 0455	Pump Start Time Pump Stop Time utes of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (L/min.) 2 CO (/ (/ (/ (/ (/ (/ (/ (/ (/))))))))))))	HIP       (1)         45       H         H       22         Y       (N)         Actor Type(s) / Su         Total         Gailone         Removed         ThoTML         JUCIO         ZCW         ZUW         YUW         SOUD         Gould         TOUU	5. Oga 110 m 3 orial Numbers: Water Level (ft TIC) 11.61 4 4 6 1. 7 1. 1. 1. 1. 1. 1.	YSE 55 <u>AACH</u> Tomp. (Cotsius) [3%]  12.38 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32	Peristallic Pum Pump Type: Samples collection GMPS 2(CO)P pH $(0.1 units]^{n}$ 7.28 7.25 7.25 7.25 7.24 7.24 7.29 7.29 7.29 7.29	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \underline{GeO} \ PU \\ \underline{GeO} \ PU \\ \hline \\ \text{cted by same me} \\ 0 & \underline{SOO} & \underline{3} \\ \underline{H} & \underline{HGSO} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSt} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ S$	abmersible Pump inp athod as evacuation 392 AE 392 AE 30-coolse Turbidity (NTU) $10% or 1 NTUP121055555555$	() Other/S $n^{2}$ () N (spectrum) po (mg/l) (10%  or  0.1 mg/l) 	Cafy) ORP (mV) -183.4 -183.4 -183.9 -187.9 -187.9 -175-1
Г Міни Volume of V D Thme 0430 0435 0440 0455 0440 0455 0445 0455 0445 0455 0455 0455 0455	Pump Start Time Pump Stop Time utes of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (L/min.) 2 CO (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/	Image: Constraint of the second sec	5. Oga 110 m 3 prial Numbers: Water Level (ft TIC) 11.01 4 4 4 6 7 7 11.01 4 11.01 1.	YSE 55 <u>AACH</u> Tomp. (Cotsius) [3%]  12.38 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32	Peristallic Pum Pump Type: Samples collection GMPS 2(CO)P pH $(0.1 units]^{n}$ 7.28 7.25 7.25 7.25 7.24 7.24 7.29 7.29 7.29 7.29	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \underline{GeO} \ PU \\ \underline{GeO} \ PU \\ \hline \\ \text{cted by same me} \\ 0 & \underline{SOO} & \underline{3} \\ \underline{H} & \underline{HGSO} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSt} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ S$	abmensible Pump inp athod as evacuation 392 AE 30-co.5 Turbidity (NTU) (10% or 1 NTUP 12 10	() Other/S $n^{2}$ () N (spectrum) po (mg/l) (10%  or  0.1 mg/l) 	ORP (mV) [10mV]* -183.4 -183.4 -185.0 -184.7 -187.9 -175.1 -179.2
Г Міни Volume of V D Thme 0430 0435 0440 0455 0440 0455 0445 0455 0445 0455 0455 0455 0455	Pump Start Time Pump Stop Time utes of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (L/min.) 2 CO (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/	HIP       (1)         45       H         H       22         Y       (N)         Actor Type(s) / Su         Total         Gailone         Removed         ThoTML         JUCIO         ZCW         ZUW         YUW         SOUD         Gould         TOUU	5. Oga 110 m 3 prial Numbers: Water Level (ft TIC) 11.01 4 4 4 6 7 7 11.01 4 11.01 1.	YSE 55 <u>AACH</u> Tomp. (Cotsius) [3%]  12.38 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32	Peristallic Pum Pump Type: Samples collection GMPS 2(CO)P pH $(0.1 units]^{n}$ 7.28 7.25 7.25 7.25 7.24 7.24 7.29 7.29 7.29 7.29	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \underline{GeO} \ PU \\ \underline{GeO} \ PU \\ \hline \\ \text{cted by same me} \\ 0 & \underline{SOO} & \underline{3} \\ \underline{H} & \underline{HGSO} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSt} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ S$	abmersible Pump inp athod as evacuation 392 AE 392 AE 30-coolse Turbidity (NTU) $10% or 1 NTUP121055555555$	() Other/S n? () N (spectrum) (mg/l) (10%  or  0.1 mg/l) 	Cafy) ORP (mV) [10mV]* -183.4 -183.4 -185.0 -184.7 -187.9 -175.1 -179.2
Г Міни Volume of V D Thme 0430 0435 0435 0445 0445 0445 0445 0445	Pump Start Time Pump Stop Time utes of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (L/min.) 2 CO (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/	Image: Constraint of the second sec	5. Oga // 0 h s erial Numbers: Water Level (ft TIC) // . 6/ 4 4 4 6 7 7 7 1 7 7 1 7 7 7 7 7 7 7 7 7 7 7 7	YSE 55 <u>AACH</u> Tomp. (Cotsius) [3%]  12.38 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32	Peristallic Pum Pump Type: Samples collection GMPS 2(CO)P pH $(0.1 units]^{n}$ 7.28 7.25 7.25 7.25 7.24 7.24 7.29 7.29 7.29 7.29	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \underline{GeO} \ PU \\ \underline{GeO} \ PU \\ \hline \\ \text{cted by same me} \\ 0 & \underline{SOO} & \underline{3} \\ \underline{H} & \underline{HGSO} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSt} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ S$	abmersible Pump inp athod as evacuation 392 AE 392 AE 30-cools Turbidity (NTU) 10% or 1 NTUP 12 10 5 5 5 5 5 5 5 5	() Other/S n? () N (spectrum) (mg/l) (10%  or  0.1 mg/l) 	ORP (mV) [10mV] -183.4 -183.4 -183.0 -184.7 -187.9 -175.1 -179.2
И Міни Volume of V D Thme 0430 0435 0435 0435 0445 0445 0445 0455 0445 0455 0445 0455	Pump Start Time Pump Stop Time utes of Pumping Nater Removed id Well Go Dry? Water Quality N Pump Rate (L/min.) 2 CO (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/	Image: Constraint of the second sec	5. Oga 110 m 3 prial Numbers: Water Level (ft TIC) 11.01 4 4 4 6 7 7 11.01 4 11.01 1.	YSE 55 <u>AACH</u> Tomp. (Cotsius) [3%]  12.38 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32 12.32	Peristallic Pum Pump Type: Samples collection GMPS 2(CO)P pH $(0.1 units]^{n}$ 7.28 7.25 7.25 7.25 7.24 7.24 7.29 7.29 7.29 7.29	$\begin{array}{c} \text{np} ( ) & \text{St} \\ \underline{GeO} \ PU \\ \underline{GeO} \ PU \\ \hline \\ \text{cted by same me} \\ 0 & \underline{SOO} & \underline{3} \\ \underline{H} & \underline{HGSO} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSp. Cond} \\ \underline{JSt} \\ \underline{OSC} \\ \underline{JSt} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ 0 \\ \underline{SST} \\ S$	abmersible Pump inp athod as evacuation 392 AE 392 AE 30-cools Turbidity (NTU) 10% or 1 NTUP 12 10 5 5 5 5 5 5 5 5	() Other/S n? () N (spectrum) (mg/l) (10%  or  0.1 mg/l) 	Cafy) ORP (mV) [10mV]* -183.4 -183.4 -185.0 -184.7 -187.9 -175.1 -179.2

Laboratory: <u>SGS</u> Delivered Via: <u>UPS</u> Airbill #:

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-M Field Sampling Coordinator:

CTMORIOGEGroundweter/654199Alerctater/D-2

Well No. GMA1-25

Site/GMA Name Sampling Personnel

GMAI EVAC Date Weather

10/17/08 Sumy - low 605

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WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons	Water Level	Temp. (Celsius)	Hq	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:0	200	Removed	(ft TIC)	[3%]*	[0.1 units]*	{3%}*		[10% or 0.1 mg/J]*	[10 mV]*
			11.61	12.24	7.24	<del>/</del>	3	1.75	-164.5
10.15	/1	9000	()	12.29	7,34	0.581	3	1,42	-162.1
10:00	Ċ1	10000	4	19.28		0,581	ろ 3 ふ	1,39	-165.5
10125	4	11000	4	12.24	7.38	0.583	3	1.11	-166.
10:30	<i>Li</i>	12600	<u> </u>	184 12.23	7.36	0.583	3	0.97	-165.4
10:35	<i>t.</i>	13000	(1	12.24	7.37	0.585	3	0,79	-166.7
10:40	<u>[]</u>	14000	(1	12,24	7.38	0.583	3 3 3 3 3 3 3 3	0.71	-174.3
10-45	ί,	15000	Ð	12.24	7.37	0.583	3	0.70	-176.1
10:50	4	16000	(1	12.24			3	0.67	-177.4
10:55	SAM-AL	ۍ ت			, ,			<u>_</u>	
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\* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

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OBSERVATIONS/SAMPLING METHOD DEVIATIONS

V.GE\_Pittstield\_General\_Confidential/Reports and Presentations/FSP\_QAPP UpdateREV04V4tachmont D-2GW sampform\_DRAFTv1.xis

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1A1-2 Well No. MAL GE AHShr GHA Name Kay No. 2537 2not <u>110018</u> PID Background (ppm) 0 Date ルチ 10 1-5-Well Headepace (ppm) Ο Sunny WELL INFORMATION 1120 Sample Time **Reference Point Merked?**  $\odot$ N Sample iD GMA1-27 Height of Reference Point Meas. From Duplicate ID (3144 2" Well Diameter MSMSE MSANSO GMA1-27 BGS Screen Interval Depth 4-14 Moes. From Spill Sample ID Mosa. From 9.14 Water Table Depth T  $\overline{1}$ Well Depth 18:44 Mons. From TI Required Analytical Parametera; Collected Length of Water Column 9.3/ (X)VOCs (Std. int)  $(\mathbf{Y})$ Volume of Water in Well 1.52 gallows 3 1 VOCa (Exp. list) 3 Intake Depth of Pump/Tubing ~13.5 Moss. From TIC 1 SVOC.  $(\chi)$  $\geq$ 6 1 PCBs (Total) ) X Reference Point Identification: ( X PCBs (Dissolved) TIC: Top of Inner (PVC) Casing 13 Metals/Inorganics (Total) ć ) TOC: Top of Outer (Protective) Casing Metals/Inorganics (Dissolved) ) ( Grade/BGS: Ground Surface 3 EPA Cyanida (Dissolved) ) ۱ PAC Cyanide (Dissolved) 1 Redevelop? Y N ) PCDDs/PCDFs Pesticides/Herbicides } Natural Attenuation 3 t } Other (Specify) { 3 EVACUATION INFORMATION Pump Start Time \_1020 Pump Stop Time 1210 Bladder Pump (📈 Evacuation Method: Bailer ( ) Minutes of Pumping 10 Peristatic Pump () Submersible Pump () Pump Type: <u>Marschalle-Sijstem</u> Peristatic Pump ( ) Other/Specify ( ) Volume of Water Removed 7. Ognilons One Did Weil Go Dry? Y N Samples collected by same method as evacuation? Water Quality Meter Type(s) / Serial Numbers: 151-3-3-6 MPJ Hach 2100P Turbilimeter Pump Total Water Temp. pН Sp. Cond. Turbidity 00 ORP Time Rate Gallone Level (Coisius) (mS/cm) (NTU) (mg/l) (mV) (L/min. Removed (ft TIC) [3%]\* (10% or 1 NTU]" [10% or 0.1 mg/] (0.1 units)\* [3%]\* [10 mV]\* 1730 400 1.06 ----51 ()2< くらつ 1.52 41 7.21 0.680 1,10 41 54,9 300 92 9 1. 14 7 ŚŚ 1.9 0.31 55.60 200 2.32 9.14 17 4 1.6 G 81 -54,2 0.24 300 2.7こ 9 12 isto 7 D330 ス 0, ZZ# = 49 るじつ 3-11  $C_1$ 99 1.55 0.677 16 7-52,5 0,18 1100 3.44 4 98 -2 57 O, l73 0.17 51.7 105 3. 77 9,15 12,54 7 03 Ô. 1.659 ζ O. 16 -52.5 The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

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SAMPLE DESTINATION

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Airbill #:		· · · · · · · · · · · · · · · · · · ·

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Well No. GMA1-27 ......

Site/GMA Name <u>GHA1 GE Pittsfield</u> Sampling Personnel <u>KCC/D42</u> Date <u>10/17/08</u> Weather <u>Sunny</u> 70's

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WELL INFORMATION - See Page 1

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Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	рН [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) {10 mV]*
1110	250	4.10	ALAN 9,14	12.64	7.02	0.664	11	OH5	-52.8
1113	250		9,13	12,65	7,05	0,658	10	0.14	-53,5
1115	250	4.50	9.14	12,78	7,06	0.655	10	0,14	-54.5
1119	250	4.69	9,15	12,74	7,02	0,653	10	0.14	-541
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\* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. OBSERVATIONS/SAMPLING METHOD DEVIATIONS

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# GROUNDWATER SAMPLING LOG

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Key i PiD P	Lackman	<u>ربه</u> ا		·	mpling Personi		KCC	······································	
	lackground (pp				De	10/23			
VTO	Headepace (pp	m) <u>0</u>	•••••		Weath	W Clevu	, 45°F		
WELL INFO	RMATION						_	· · · · · ·	
	nce Point Merke	d? Y N	ł					m <u>15'.30</u>	
	of Reference Po		Meas. F			:	Sample	10 <u>FJ1-18</u>	
		w <u>/7.75"</u>		nom				D 0	·_·_
Se	roon Interval Dep	$\frac{1}{4} \frac{1}{4} \frac{1}$					MSAMS		
	Water Table Dep			rom <u>Ground</u>			Split Sample	<u>م</u>	
	,	14.25°	Nexts. Pi	rom TIL		<b></b>			
Lengt	h of Water Colum		//////////////////////////////////////			Required		al Parameters;	Colle
	ne of Water in W					( )		Cs (Sitl. äst)	(
	th of Pump/Tubir			om <u>772</u>		( )		a (Exp. list)	(
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Reference P	oint Identification	i:				( )		Ba (Yotal)	(
	nner (PVC) Casi					$(\mathcal{A})$		(Dissolved)	1
	Outer (Protectiv					$\langle \rangle$		organics (Total)	(
	Ground Surface							panica (Dissolved)	(
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EVACUATIO	N INFORMATIO	N				( )	Othe	(Specify)	(
	Pump Start Time	15:25	-						
	Pump Stop Time	15:35			Evacuation M	lethod: Bailer		Pump ()	
Volume of	Water Removed	0.59-1	10-1-1		Pump Type:	Geo Pu	ubmensible Pump <u>Mア こ</u>	,	xecify ()
Volume of	Did Well Go Dry?	Y 'N		10 m m	Samples colle	Geo Pu	mp č ethod as evacuatio	IN? (spec	afy)
Volume of	Did Well Go Dry?	Y 'N		· <u>YSI-5</u>	Samples colle	Geo Pu	mp č ethod as evacuatio	,	afy)
, ,	Did Well Go Dry?	Y 'N		r: <u>751-5-</u>	Samples colle	Geo Pu sected by same m Hach	mp č othod as evacuatio ZIDO P	m? (P N (spec Turkil, ty	išγ)
Volume of	Water Quality & Pump Rate	Y <sup>/</sup> N Metor Type(s) / :	Serial Number		Samples colle	Geo Pu	mp č ethod as evacuatio	m? () N (spec Turkiv, tr DO	sty)
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y 'N Meter Type(s) / : Total	Serial Numbers	Temp.	Samples colle	Geo Pu octod by same m Hach Sp. Cand.	np č othod as evacuatio <u>2,100 P</u> Turbidity (NTU)	m? (P N (spec Turkil, ty	siy) ORP (mV)
, ,	Water Quality & Pump Rate	Y 'N detor Type(s) / : Total Gallone	Serial Number Water Lavel	Temp. (Celsius)	Samples colle 57. <u>MPJ</u> pH i(0.1 units)*	Geo Pu botted by same m Hach (mS/em) (3%)*	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	$\frac{1}{10\%} \stackrel{(1)}{\bigcirc} N (spec)$ $\frac{1}{10\%} \frac{1}{10\%} (spec)$ $\frac{1}{10\%} (spec)$ $\frac{1}{10\%} (spec)$	37y) ORP (mV) [10 m\
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y N Netor Type(s) / : Total Galione Removed	Serial Numbers Water Level (ft TIC)	Tomp. (Coisius) [3%]*	Samples colle	Geo Pu octed by same m Hach Sp. Cand. (mS/cm)	np č othod as evacuatio <u>2,100 P</u> Turbidity (NTU)	ni? () N (spec Turkid, ty DO (mg/l)	37y) ORP (mV) [10 m\
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y N Netor Type(s) / : Total Galione Removed	Serial Numbers Water Level (ft TIC)	Tomp. (Coisius) [3%]*	Samples colle 57. <u>MPJ</u> pH i(0.1 units)*	Geo Pu botted by same m Hach (mS/em) (3%)*	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	$\frac{1}{10\%} \stackrel{(1)}{\bigcirc} N (spec)$ $\frac{1}{10\%} \frac{1}{10\%} (spec)$ $\frac{1}{10\%} (spec)$ $\frac{1}{10\%} (spec)$	37y) ORP (mV) [10 m\
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y N Netor Type(s) / : Total Galione Removed	Serial Numbers Water Level (ft TIC)	Tomp. (Coisius) [3%]*	Samples colle 57. <u>MPJ</u> pH i(0.1 units)*	Geo Pu botted by same m Hach (mS/em) (3%)*	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	$\frac{1}{10\%} \stackrel{(1)}{\bigcirc} N (spec)$ $\frac{1}{10\%} \frac{1}{10\%} (spec)$ $\frac{1}{10\%} (spec)$ $\frac{1}{10\%} (spec)$	37y) ORP (mV) [10 m\
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y N Netor Type(s) / : Total Galione Removed	Serial Numbers Water Level (ft TIC)	Tomp. (Coisius) [3%]*	Samples colle 57. <u>MPJ</u> pH i(0.1 units)*	Geo Pu botted by same m Hach (mS/em) (3%)*	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	$\frac{1}{10\%} \stackrel{(1)}{\bigcirc} N (spec)$ $\frac{1}{10\%} \frac{1}{10\%} (spec)$ $\frac{1}{10\%} (spec)$ $\frac{1}{10\%} (spec)$	37y) ORP (mV) [10 m\
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y N Netor Type(s) / : Total Galione Removed	Serial Numbers Water Level (ft TIC)	Tomp. (Coisius) [3%]*	Samples colle 57. <u>MPJ</u> pH i(0.1 units)*	Geo Pu botted by same m Hach (mS/em) (3%)*	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	$\frac{1}{10\%} \stackrel{(1)}{} N (spectrum) \\ \frac{1}{10\%} \frac{1}{10\%} (spectrum) \\ \frac{1}{10\%} \frac{1}$	37y) ORP (mV) [10 m\
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y N Netor Type(s) / : Total Galione Removed	Serial Numbers Water Level (ft TIC)	Tomp. (Coisius) [3%]*	Samples colle 57. <u>MPJ</u> pH i(0.1 units)*	Geo Pu botted by same m Hach (mS/em) (3%)*	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	$\frac{1}{10\%} \stackrel{(1)}{} N (spectrum) \\ \frac{1}{10\%} \frac{1}{10\%} (spectrum) \\ \frac{1}{10\%} \frac{1}$	37y) ORP (mV) [10 mV
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y N Netor Type(s) / : Total Galione Removed	Serial Numbers Water Level (ft TIC)	Tomp. (Coisius) [3%]*	Samples colle 57. <u>MPJ</u> pH i(0.1 units)*	Geo Pu botted by same m Hach (mS/em) (3%)*	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	$\frac{1}{10\%} \stackrel{(1)}{} N (spectrum) \\ \frac{1}{10\%} \frac{1}{10\%} (spectrum) \\ \frac{1}{10\%} \frac{1}$	37y) ORP (mV) [10 mV
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y N Netor Type(s) / : Total Galione Removed	Serial Numbers Water Level (ft TIC)	Tomp. (Coisius) [3%]*	Samples colle 57. <u>MPJ</u> pH i(0.1 units)*	Geo Pu botted by same m Hach (mS/em) (3%)*	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	$\frac{1}{10\%} \stackrel{(1)}{} N (spectrum) \\ \frac{1}{10\%} \frac{1}{10\%} (spectrum) \\ \frac{1}{10\%} \frac{1}$	3y) ORP (mV)
Time	Valer Quality & Water Quality & Pump Rate (L/min.)	Y N Netor Type(s) / : Total Galione Removed	Serial Numbers Water Level (ft TIC)	Tomp. (Coisius) [3%]*	Samples colle 57. <u>MPJ</u> pH i(0.1 units)*	Geo Pu botted by same m Hach (mS/em) (3%)*	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	$\frac{1}{10\%} \stackrel{(1)}{} N (spectrum) \\ \frac{1}{10\%} \frac{1}{10\%} (spectrum) \\ \frac{1}{10\%} \frac{1}$	37y) ORP (mV) [10 mV
Time 15:35	Vater Quality M Pump Rate (L/min.) ZODM	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26	Venial Numbers Venial Numbers Level (ft TIC) 87. 6 3	Temp. (Ceisius) [3%]* /3. 65	Samples colle	<u>Geo Fu</u> octod by same m <u>Hach</u> (mStem) (3%) <sup>*</sup> <u>G. D6 9</u>	MP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	117 (3 N (3pec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2.	37y) ORP (mV) [10 m\
Time 15:35	Mater Quality Ma	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Ceisius) [3%]* /3. 65	Samples colle	<u>Geo Fu</u> octod by same m <u>Hach</u> (mStem) (3%) <sup>*</sup> <u>G. D6 9</u>	mp 2 othod as evacuatio 2/00 P Turbidity (NTU) [10% or 1 NTUP	117 (3 N (3pec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2.	37y) ORP (mV) [10 m\
Time 15:35	Vater Quality M Pump Rate (L/min.) ZODM	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Ceisius) [3%]* /3. 65	Samples colle	<u>Geo Fu</u> octod by same m <u>Hach</u> (mStem) (3%) <sup>*</sup> <u>G. D6 9</u>	MP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	117 (3 N (3pec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2.	37y) ORP (mV) [10 m\
Time 15:35	Mater Quality Ma	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Ceisius) [3%]* /3. 65	Samples colle	<u>Geo Fu</u> octod by same m <u>Hach</u> (mStem) (3%) <sup>*</sup> <u>G. D6 9</u>	MP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	117 (3 N (3pec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2.	37y) ORP (mV) [10 m\
Time 15:35	Mater Quality Ma	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Ceisius) [3%]* /3. 65	Samples colle	<u>Geo Fu</u> octod by same m <u>Hach</u> (mStem) (3%) <sup>*</sup> <u>G. D6 9</u>	MP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	117 (3 N (3pec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2.	37y) ORP (mV) [10 m\
Time 15:35	Mater Quality Ma	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Ceisius) [3%]* /3. 65	Samples colle	<u>Geo Fu</u> octod by same m <u>Hach</u> (mStem) (3%) <sup>*</sup> <u>G. D6 9</u>	MP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	117 (3 N (3pec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2.	37y) ORP (mV) [10 mV
Time /5:35 The stabilizatic DBSERVATION	Mater Quality M Pump Rate (L/min.) ZODMI	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Ceisius) [3%]* /3. 65	Samples colle	<u>Geo Fu</u> octod by same m <u>Hach</u> (mStem) (3%) <sup>*</sup> <u>G. D6 9</u>	MP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	117 (3 N (3pec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2.	37y) ORP (mV) [10 m\
Time /S:35 The stabilization BSERVATION	NATION	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Ceisius) [3%]* /3. 65	Samples colle	<u>Geo Fu</u> octod by same m <u>Hach</u> (mStem) (3%) <sup>*</sup> <u>G. D6 9</u>	MP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	117 (3 N (3pec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2.	37y) ORP (mV) [10 m\
Time /S:35 The stabilization BSERVATION AMPLE DESTIL Laboratory:	NATION	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Ceisius) [3%]* /3. 65	Samples colle	<u>Geo Fu</u> octod by same m <u>Hach</u> (mStem) (3%) <sup>*</sup> <u>G. D6 9</u>	MP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	117 (3 N (3pec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2.	37y) ORP (mV) [10 mV
Time /S:35 The stabilization BSERVATION	NATION	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Celsius) [3%]" /3. 65" 	Samples colle	Geo Fu octod by same m //ach (mStem) (3%)* G. DG 9	NP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	ni?  N (spec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2. Solumn heading.	37y) ORP (mV) [10 mV
Time /S:35 The stabilization BSERVATION AMPLE DESTIL Laboratory:	NATION	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Celsius) [3%]" /3. 65" 	Samples colle	Geo Fu octod by same m //ach (mStem) (3%)* G. DG 9	NP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2 7	ni?  N (spec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2. Solumn heading.	37y) ORP (mV) [10 mV
Time /5:35 The stabilization DBSERVATION CAMPLE DESTI- Laboratory: Definered Vie:	NATION	Y 'N Aetor Type(s) / : Total Gaflone Removed O-26 h field paramete	Venial Numbers Venial Numbers (fit TIC) 8.63	Temp. (Celsius) [3%]" /3. 65" 	Samples colle	Geo Fu octod by same m //ach (mStem) (3%)* G. DG 9	MP 2 othod as evacuation 2,100 P Turbidiky (NTU) [10% or 1 NTUP 2,7	ni?  N (spec Turkil, } DO (mg/l) (10% or 0.1 mg/l] /./ 2. Solumn heading.	37y) ORP (mV) [10 mV

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Minu Volume of W	ump Stop Time Iter of Pumping Vater Removed d Well Go Dry?	- <u>(3:30</u> - <u>210</u> - <u>- <del>1182</del></u> - <u>Y</u> (N)	- Squllon.	, ,	Evacuation M Peristatic Pun Pump Type: Samples colle	MARS	() Bladder Ibmersible Pump Lalk <u>Syst</u> ethod as evacuatio	on one	ipocsfy ( ) 
Minu: Volume of Vi Dic	ites of Pumping Vater Removed d Well Go Dry?	-210	/	<u> YJC 55</u>	Peristallic Pun Pump Type: Samples colle	mp ( ) Su <u>Marro</u> ctod by same me <u>4</u> 03 M 1	ibmensible Pump $L \times [C - SV_{2} + I]$ whod as evacuation $C(2,3,0) \in A \in S$	() Other/s	
Minu: Volume of Vi Dk	tes of Pumping Vater Removed d Well Go Dry? ': Water Quality M Pump	210 	erial Numbers: Water	YJC 55 1+ACH	Peristatic Pun Pump Type: Samples colle	np ( ) Su Marric cted by same me	ibmensible Pump $L \times [C - SV_{2} + I]$ whod as evacuation $C(2,3,0) \in A \in S$	() Other/s	
Minu: Volume of Vi Dic	tes of Pumping Vater Removed d Well Go Dry? Vater Quality N	2.10 	erial Numbers; Water Level	YSC SS 1+ACH Temp. (Celeius)	Peristallic Pun Pump Type: Samples colle (4 MPS / 2100 P Z pH	mp () St <u>Marric</u> ctod by same m <u>4</u> 03 M 1 <del>7</del> 46500-0 Sp. Cond. (mS/cm)	ibmensible Pump A     C - S   A + C who as evacuation C > A + C T = C + C + C T = C + C + C T = C + C + C (NTU)	( ) Other/S on <u>Dir L</u> In? (Y) N (spe DO (mg/l)	cify) ORP (mV)
Minu: Volume of Vi Dk	tes of Pumping Vater Removed d Well Go Dry? ': Water Quality M Pump Rate	→ 10 → 1:52 S Y N Heter Type(s) / S Total Gailone	erial Numbers; Water Level (ft TIC)	YJC 55 1+ACH	Peristaltic Pum Pump Type: Samples colle (c MPS / Z100 P Z pH (0.1 units)*	mp () St <u>Marric</u> Cod by same mi <u>4</u> 03 M ( <del>4</del> 03 M ( <del>5</del> 46500-c (ms/cm) (3%) <sup>2</sup>	ibmensible Pump A N/C -SU, A school as evacuation CC230 A E Turbidity (NTU) [10% or 1 NTUP	() Other/S om <u>Dr. p</u> n? (Y) N (spe <u>DO</u> ( <b>mg/l</b> ) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
Minu: Vokume of Vi Dic Time 3) 00	tes of Pumping Vater Removed d Well Go Dry? Water Quality M Pump Rate (L/min.)	210 4:52 5 Y N leter Type(s) / S Total Gailone Removed	erial Numbers; Water Level	<u>YSE</u> 55 1-1ACH Temp. (Cetaius) 13%)*	Peristalitic Pum Pump Type: Samples colle (	mp () St <u>Marre</u> ctod by same me <u>4</u> 03 M ( <u>5</u> 46500-0 <u>5</u> 9. Cond. (mS/cm) <u>13%</u> <u>0.513</u>	ibmensible Pump $L +  L - SU_{2} + 2$ pathod as evacuation $U_{2}^{3} \circ A \in 2$ $T_{U}^{3} \circ A \in 2$ $T_{U}^{3} \circ A \in 1$ (NTU) (NTU) (10% or 1 NTUP $5 \le 3$	() Other/S om On p in? (Y) N (spe DO (mg/l) [10% or 0.1 mg/l] 3, 1 G	caly) ORP (mV) [10 mV]* ⊋Ç.(_
Minu: Vokume of Vi Dic Tirme 3) 00 3:05	tes of Pumping Vater Removed d Well Go Dry? Water Quality M Pump Rate (Umin.) { CTD	210 4112 5 Y (N) Heter Type(s) / S Total Gallone Removed 500	erial Numbers; Water Level (ft TIC)	YSE 55 1-1ACU Temp. (Celeius) 13%)* 15.16	Peristable Pump Pump Type: Samples colle $\frac{1}{200} \frac{100}{2}$ pH i0.1 units]* G.C.P G.G.91	$\begin{array}{c} mp(1) & St \\ \hline Marrie \\ \hline Ctod by same methods \\ \hline 03 & Mt \\ \hline 03 & Mt \\ \hline 1000 & Ctod \\ \hline 03 & Ctod \\ \hline 0.5 & Ctod \\ \hline 0.5 & 12 \\ \hline \end{array}$	ibmensible Pump L N/C -SU, A sthod as evacuation C230 A.E SU Turbidity (NTU) (10% or 1 NTUP 53 477	() Other/s om <u>On c</u> nn? (Y) N (spe (mg/l) [10% or 0.1 mg/l] 3, [9 Z, 35	cafy) ORP (mV) [10 mV]* ⊇Ç.( -3.⊘
Minus Vokume of Vi Die Thme 3)00 3:05 [3:10	tes of Pumping Vater Removed d Well Go Dny? ': Water Quality M Pump Rate (L/min.) (CTO ((	210 -1:52 5 Y N Heter Type(s) / S Total Gallone Removed 500 1000	erial Numbers: Water Level (RTIC)	YSE 55 1+ACH Temp. (Cotaius) 13%) 1552 15.16 15.16	Peristable Pump Pump Type: Samples colle (	np () St <u>Marrie</u> Ctod by same me <u>Ctod by same me</u> <u>03 M(1</u> <u>7 46500-0</u> <u>, Sp. Cond.</u> (mSicm) <u>[3%]*</u> <u>0.512</u> <u>0.512</u> <u>0.504</u>	ibmensible Pump L     C - SU, 4 ethod as evacuatio $C(23 \circ A \in S)$ Turbidity (NTU) (10% or 1 NTUP 53 477 473	() Other/s on On p in? (Y) N (spe DO (mg/l) [10% or 0.1 mg/l] 3, 1 9 2, 3 5 (), 7 3	Cally) ORP (mV) [10 mV]* 2 G . (G - 3 . C) U [ ] . G
Minu: Volume of V Dic Thme 3) 00 3.05 /3.10 2.15	tes of Pumping Vater Removed d Well Go Dry? ': Water Quality M Pump Rate (Umin.) { CTD (( /( /(	210 4112 5 Y N Heter Type(s)/S Total Gailone Removed 500 1000 1500	erial Numbers; Water Level (ft TIC)	YSE 55 1+ACH Temp. (Celeius) 13%1 15.16 15.16 14.91 14.81	Peristable Pump Pump Type: Samples colle $\frac{2000 P}{2}$ pH i0.1 units]* G. G.P G. 91 $\overline{7}$ , 21 $\overline{7}$ , 04	$\begin{array}{c} mp(1) & St \\ \hline Marrie \\ \hline Marrie \\ \hline Ctod by same methy \\ \hline 03 & Mt \\ \hline 03 & Mt \\ \hline 0380 \\ \hline 1000 \\ \hline 0.512 \\ \hline 0.512 \\ \hline 0.502 \\ \hline 0.502 \\ \hline \end{array}$	ibmensible Pump L N/C -SU, A sthod as evacuation C230 A.E SU Turbidity (NTU) (10% or 1 NTUP 53 477	() Other/s om <u>On c</u> nn? (Y) N (spe (mg/l) [10% or 0.1 mg/l] 3, [9 Z, 35	cafy) ORP (mV) [10 mV]* ⊇Ç.( -3.⊘
Minus Vokume of Vi Dia Thme 3) 00 3:05 /3:10 3:05 /3:10 3:15 /3:20	tes of Pumping Vater Removed d Well Go Dny? ': Water Quality M Pump Rate (L/min.) (CTO ((	$\frac{210}{2132}$ Y N Heter Type(s) / S Total Gallona Removed 500 1000 1500 2000	erial Numbers: Water Level (RTIC)	YSE 55 1+ACH Temp. (Cotaius) 13%) 1552 15.16 15.16	Peristable Pump Pump Type: Samples colle (	np () St <u>Marrie</u> Ctod by same me <u>Ctod by same me</u> <u>03 M(1</u> <u>7 46500-0</u> <u>, Sp. Cond.</u> (mSicm) <u>[3%]*</u> <u>0.512</u> <u>0.512</u> <u>0.504</u>	ibmensible Pump L     C - SU, 4 ethod as evacuatio $C(23 \circ A \in S)$ Turbidity (NTU) (10% or 1 NTUP 53 477 473	() Other/s on On p in? (Y) N (spe DO (mg/l) [10% or 0.1 mg/l] 3, 1 9 2, 3 5 (), 7 3	Cally) ORP (mV) [10 mV]* 2 G . (G - 3 . C) U [ ] . G
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Minus Vokume of Vi Dia Thme 3) 00 3:05 /3:10 3:05 /3:10 3:05 /3:10	tes of Pumping Vater Removed d Well Go Dry? ': Water Quality N Pump Rate (L/min.) (CTD (( // //	$\frac{210}{2412}$ Y (N) Heter Type(s) / S Total Gallone Removed 500 1000 1500 2500 3500	erial Numbers: Water Level (RTIC)	YSE 55 1+ACH (Cotaius) 13%) 15.52 15.16 14.91 14.81 14.81	Peristable Pump Pump Type: Samples colle $\frac{1}{2000}$ PT $\frac{1}{2000}$ PT 1	$\begin{array}{c} mp(1) & St \\ \hline Marrie \\ \hline Marrie \\ \hline Ctod by same methy \\ \hline 03 & Mt \\ \hline 03 & Mt \\ \hline 0380 \\ \hline 1000 \\ \hline 0.512 \\ \hline 0.512 \\ \hline 0.502 \\ \hline 0.502 \\ \hline \end{array}$	ibmensible Pump L     C - SU + 2 pethod as evacuation U230 AE U230 AE U00 Turbidity (NTU) [10% or 1 NTUP SS 4(7) 4(3) 4(0)	$\begin{array}{c} () & Other/s\\ () & Othe$	Cafy) ORP (mV) [10 mV]* 26.6 -3.0 41.9 43.9
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Minu Volume of V Dia	ump Start Tin ump Stop Tin ites of Pumpin vater Remove d Well Go Dry	ne <u>10:35</u> ne <u>12:05</u> ng <u>GD</u> ed <u>20</u> r? Y (P)	gullond Seriel Numbers:	Y51 5	Evacuation M Peristatic Pun Pump Type: Samples colle	Mars() Si	ibmensible Pump C. A. u. I.e Sy othod an evacuation	() Other/sp crtem ani	
Minu Volume of W Dia	ump Start Tim ump Stop Tim ites of Pumpin Vater Remove d Weil Go Dry Water Quality Pump	ne <u>10:35</u> ne <u>13:05</u> ng <u>90</u> ed <u>30</u> ? Y N ? Y N ? Y Total	/ Serial Numbera: Water	Y <u>51</u> F	Peristatilo Pun Pump Type:	np () Si Mars( cted by same m	ibmensible Pump C. A. u. I.e Sy othod an evacuation	() Other/sp stem Oni	د
Minu Volume of V Dia	ump Start Tan ump Stop Tan tes of Pumpin Vater Remove d Well Go Dry * Water Quality	ne <u>10:35</u> ne <u>13:05</u> ng <u>90</u> ed <u>30</u> ? Y (N) /	/ Serial Numbers:	YSI 5 Temp. (Ceteiuu) [3%]*	Peristallic Pun Pump Type: Samples collo	np () Si <u>Mars</u> (cted by same m MPS # Sp. Cond. (mS/cm)	Ibmensible Pump C A ulle - S othod as evapuatic (L4 Turbidity (NTU)	() Other/Sp <u>() Acm</u> On ( ) ) ) ) ) ) ) ) ) ) ) ) )	DRP (mV)
Minu Volume of V Dir Dir Time	ump Start Tim ump Stop Tim tes of Pumpin Vater Remove d Weil Go Dry Water Quality Pump Rate	ne <u>10:35</u> ne <u>13:05</u> ng <u>90</u> ad <u>30</u> ? Y N ? Y N ? Y Metor Type(s) / : Total Gallone	/ Serial Numbers: Water Lavel	(Celsius)	Peristantic Pum Pump Type: Samples colle 556 Y pH	np () Si <u>Mars</u> ( cted by same m <u>NPS</u> #	Ibmersible Pump C A ulle - S othod as evenuation (L) Turbidity (NTU) (10% or 1 NTUP	() Other/Sp <u>() / E m On i</u> <u>() N (Spec</u> <u>() N (Spec</u> <u>() N (Spec</u> <u>() N (Spec</u> <u>() N (Spec</u> <u>) N (Spec <u>) N (Spec</u> <u>) N (Spec</u> <u>) N (Spec</u> <u>) N (Spec</u> <u>) N (Spe</u></u>	2 37) 0RP (mV) [10 mV]
Minu Volume of W Dia	ump Start Tirr ump Stop Tirr vister Remove d Weil Go Dry " Water Quality Pump Rate (L/min.)	ne 10:35 ne 13:05 ng 9:0 ed 20 ? Y N / Metor Type(s) / Total Galione Removed	/ Serial Numbers: Water Level (ft TIC)	(Ceisius) [3%]*	Peristantic Pum Pump Type: Samples colle DDL Y pH i0.1 units (*	Ap () Si Mars( cted by same m MPS # Sp. Cond. (mS/cm) (3%)	Ibmensible Pump C A ulle - S othod as evapuatic (L4 Turbidity (NTU)	() Other/Sp () A Charles () A Charles () Charles (	2 37) 2 0RP (mV) [10 mV]
Minu Volume of W Di Time 10:45 10:45 10:30	ump Start Tim ump Stop Tim tes of Pumpin Vater Remove d Weil Go Dry Water Quality Pump Rate (L/min.)	ne 10:35 ne 13:05 ng 90 ed 30 7 Y N / Meter Type(s) / 1 Total Galione Removed 0.70	Serial Numbera: Water Level (ft Tic) 8.6.0	(Ceisius) [3%]*	Peristatilic Pum Pump Type: Samples colle DDC / pH (0.1 units)*	np () Si <u>Mars</u> cted by same m <u>NPS</u> (mStem) (3%) <sup>2</sup>	Ibmersible Pump C A ulle - S sthod as evacuatic L4 Turbidity (NTU) [10% or 1 NTUP -35	() Other/Sp () / C m ()	2 37) 2 0RP (mV) [10 mV] -
Minu Volume of V Di Di Time 10: 40; 10: 45	ump Start Tim ump Stop Tim tes of Pumpin Vater Remove d Weil Go Dry Water Quality Pump Rate (L/min.) 75	ne 10:35 ne 13:05 ng 9:0 ed 30 y Metor Type(s)/ Total Galione Removed 0.70 0.20	Vater Level (ft TIC) 8.60 3.655 6.61	(Celeius) [3%]* - [0.9]	Peristatic Pun Pump Type: Samples colle 556 Y pH [0.1 units]*	np () Si <u>Mars</u> (cted by same m <u>MP5</u> (mStern) [3%]* - 0. \$24	Ibmersible Pump C A ulle - S othod an evenuation L4 Turbidity (NTU) [10% or 1 NTUP 35 -7 7	() Other/Sp () Cher/Sp () Ch	2 34)) 2 0RP (mV) [10 mV] <sup>1</sup>          -
Minu Volume of V Di Thme ID: 40 ID: 45 ID: 45 ID: 45 ID: 55 ID: 55	ump Start Tim ump Stop Tim res of Pumpin Vater Remove d Weil Go Dry Water Quality Pump Rate (L/min.) 75 75 75	ne 10:35 ne 12:05 ng 910 ed 20 / Y (C) / Metor Type(s) / Total Gallons Removed 0.70 0.20 0.30	Serial Numbers: Water Level (ft TIG) 8.60 5.65 6.90 9.90 9.00 9.00 9.00 9.00 9.00 9.00	(Celsius) [3%]* - [0.9][ [13.2]*(	Peristatic Pum Pump Type: Samples colle 556 / pH i0.1 units!* - - - 7.54	np () Si <u>Mars(</u> cted by same m <u>MPS</u> (mS/cm) [3%]* - 0.524 0.525	Ibmersible Pump C A ulle - S othod as evenuatic L4 Turbidity (NTU) (10% or 1 NTUP 35 -7 7 -7 7	() Other/Sp () Other/Sp () C M (spec () C M (spec () C M (spec () (spec) () (spec)	2 TV) 2 0RP (mV) [10 mV] - - 3 7. 3 44. 1
Minu Volume of V Di Thme ID: 40 ID: 45 ID: 45 ID: 45 ID: 55 ID: 55	ump Start Tirr ump Stop Tirr tes of Pumpir Vater Remove d Well Go Dry Water Quality Pump Rate (L/min.) 75 75	ne 10:35 ne 13:05 ng 9:0 nd 10 ne 13:05 ng 9:0 ng 10 ng 10 n n n n n n n n n n n n n n n n n n n	Vater Level (ft TIC) 8.60 3.655 6.61	(Celsius) [3%]* - [0.9][ [0.1]* [0.1]* [0.5][	Peristatic Pun Pump Type: Samples colle 556 PH (0.1 units)* - - 7.54 7.47 7.47	$\frac{Ma-3}{Ma-3}$ (ctod by same m $\frac{Mp5}{P5}$ (mS/cm) (mS/cm) (3%)^{-1} ()	Abmersible Pump C A wile - S othod as evenuation L4 Turbidity (NTU) (10% or 1 NTUP 35 -7 7 -7 7 -7 7 (34)	() Other/Sp () Other/Sp () Cherr/Sp () N (spec () (mg/l) (10% or 0.1 mg/l) (10% or 0.1 mg/l) 	2 34) DRP (mV) [10 mV]          -
Minu Valume of W Di Thme 10:40 10:45 10:55 10:55 11:00 11:00 11:00	ump Start Tirr ump Stop Tir tes of Pumpir Vater Remove d Well Go Dry Water Quality Pump Rate (L/min.) 75 75 75 7 15	ne 10:35 ne 13:05 ng 9:0 ed 30 r Y 10 Metor Type(s)/ Total Gallone Removed 0.70 0.20 0.50	Seriel Numbers: Water Level (ft Tic) 8.60 5.65 8.60 5.65 9.90 9.00 9.00 9.00 9.01	(Celeius) [3%]* - [0.9] [0.1]*( 10.2]* [0.2]* [0.5] [0.5] [0.5]	Peristatic Pum Pump Type: Samples colle 556 / pH i0.1 units!* - - - 7.54	$\frac{Ma-3}{Ma-3}$ (ctod by same m $\frac{Mp3}{P3}$ (mS/cm) (mS/cm) (3%) <sup>2</sup> - 0. $\frac{3}{2}$ 0. $\frac{3}{2}$ 0. $\frac{3}{2}$ 0. $\frac{3}{2}$ 0. $\frac{3}{2}$	somersible Pump $chulle - S_{L}$ othod as evenuation $L_{L}$ Turbidity (NTU) (10% or 1 NTU) (10% or 1 NTU) (10% or 1 NTU) (35) -7 7 -7 7 -7 7 -7 7 -7 7 -7 7 -7 7	() Other/Sp (1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	2 11) 2 0RP (mV) [10mV] - - 3 7. 3 - 3 - 3 - - - - - - - - - - - - -
Minu Volume of W Dir Time 10:40: 10:45 10:30	ump Start Tirr ump Stop Tir tes of Pumpir Vater Remove d Well Go Dry Water Quality Pump Rate (L/min.) 75 75 75 75 7 15 7 15 7 15 7 15 7 15	$ \begin{array}{c c} 10 & 35\\ ne & 12 & 5\\ ng & 910\\ ed & 10 & 6\\ r & y & 10 & 7\\ r & 10 $	Seriel Numbers: Water Level (R TIC) 8.60 5.65 9.65 9.05 9.05 9.05	(Celeius) [3%]* - [0.9] [0.1]*( 10.2]* [0.2]* [0.5] [0.5] [0.5]	Peristatic Pun Pump Type: Samples colle 556 PH (0.1 units)* - - 7.54 7.47 7.47	$\frac{Ma-3}{Ma-3}$ (ctod by same m $\frac{Mp5}{P5}$ (mS/cm) (mS/cm) (3%)^{-1} ()	Abmersible Pump C A wile - S othod as evenuation L4 Turbidity (NTU) (10% or 1 NTUP 35 -7 7 -7 7 -7 7 (34)	() Other/Sp () Other/Sp () Cherr/Sp () N (spec () (mg/l) (10% or 0.1 mg/l) (10% or 0.1 mg/l) 	2 34) DRP (mV) [10 mV]          -

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## GROUNDWATER SAMPLING LOG

Well No. 318

Site/GMA Name \_\_\_\_\_\_ Sampling Personnel \_\_\_\_\_  $\mathcal{M}\mathcal{A}$ MG Date 10 130 Weather 50 Nul

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV)*
	100	1.16	9.51	10.44	7.25	0.339	18	7.63	51.7
11:25	100	1.29	9.55	10.54	7.24	0.539		7.65	53.4
16:1130	100	1.42	9.65	10.00	רג.ד	0.5340	16	7.46	53.0
11:35	100	1.56	9.71	10.63	1.30	0.345	17	7.20	50.9
440-	100	1.64	9.31	10.71		0343	1-3	7,19	<u>   55.4   </u>
11:41	100	1.72	931	10.66		0445	17	7.11	54.7
11-44	100	1.80	9.52	10.30	2.25	0,845		699	56.1
•			8%*******					· · · · · · · · · · · · · · · · · · ·	
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-	- 7	<u>*</u>	<b>+</b>				<u> </u>		
	<u> </u>	<u> </u>		+	·	+			

\* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. OBSERVATIONS/SAMPLING METHOD DEVIATIONS

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# GROUNDWATER SAMPLING LOG

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Key			<b>}</b>		Sile/GillA Nar	me .	GMAL		
				S	Impling Persons		nc TOA-		······
	Background (				Da		10/15/07		
	t Headspace ()	ppm)			Weath	Sun,		02	
WELL INF	ORMATION	2					1		
Refer	ence Point Me	rked? (Y) N					Sample Ti		
Heigh	t of Reference	Point +2"	. Meas F	rom <u>GRav</u>		1	Sample		0
	Well Dim		,				Ouplicate		
	seen interval (		1-1.7-16000 FI	rom <u>Gerra</u>	V TV		MSA	· · · · · · · · · · · · · · · · · · ·	
	Water Table D		Moes, Fr	om TC			Split Sample	D NIG	
leng	Well D th of Water Col		Mone, Fr	om TIC		Require	t Anekri	cal Parameters;	0.11
	me of Water is		2.25 gallo			( )		Cs (Std. Jat)	Colle
	th of Pump/Tu	bing 11.85				( )		Ca (Exp. liet)	(
			Moss. Fn	om _1		()		SVOCa	(
	ont Identificati					()		:Ba (Totaj)	ć
	Inner (PVC) Ca					$(\mathbf{X})$		s (Dissolved)	(X
TOC: Top of	FOuter (Protec	tive) Casing					Matais/Ir Matais/Ir	lorganics (Total)	(
	Ground Surfa	Ca .				()	EPA Cun	ganics (Dissolved) nide (Dissolved)	(
Redevelop?	Y	)				()		nide (Dissolved)	(
	- <u>-</u>	·				()		IOs/PCDFs	( (
						()	Pesticid	es/Herbicides	, (
						()	Natura	Atlenuation	
EVACUATION	N INFORMATH	ON				()	Othe	r (Specify)	(
ļ	Pump Start Tin	no <u>11:35</u>							
	Pump Stop Tin lutes of Pumpir		~	+	Evacuation Me		() Bladder	Pump ( )	
	Water Remove	N - 2.643	-Ygallon	<b>y</b>	Peristallic Pum		ubmensible Pump		ectly (K)
	id Well Go Dry	P Y A	- gricon		Pump Type:	<u>~650</u>	Pump		
		Ċ	/		Samples collec	ted by same m	ethod as evacuatio	in? (Y) N (spec	ify)
	Water Quality	Meter Type(s) / S	iorial Numbors;	YSI	556 M	R AZ	CØ 392		
ſ	Pump	Total		URBIDIM		465		AE HACH 210	
Time	Rate		Water						ap –
	1	Gallone	Laval	Temp.	Hq	Sp. Cond.	Turbidity	00%	ORP
J	(L/min.)	Gaillone Removed	Level (ft TIC)	(Ceisius)		(mS/cm)	(NTU)	00 4/0 (mg/l)	1
11:40			i		j0.1 units]*	(mS/cm) [3%]*	(NTU) [10% or 1 NTU]*	00 % (mg/l)	ORP (mV)
11:40	(L/min.) 2.00	Removed	(it TIC)	(Ceisius) [3%]*	j0.1 units]*	(mS/cm) [3%]*	(NTU) (10% or 1 NTUP 28	00 4/0 (mg/l)	ORP (mV)
	(L/min.) 200 200	IN MAL	(ft TIC) 	(Celsius) (3%)*	<u>i0.1 units</u> 	(mS/cm) [3%]* —	(NTU) [10% or 1 NTU]*	00 % (mg/l) (10% a) 0.1 mg/l]*	0RP (mV) [10 mV]
11:45 11:50	(L/min.) 200 200 200	Removed INMAL (000 2000	(ft TIC) 	(Celaius) [3%]*  20.20	j0.1 units]*   	(mS/cm) [3%]* - - [, 2,38	(NTU) (10% or 1 NTUP 28 8 5	00 % (mg/l) (10% 00.1 mg/l) 	0RP (mV) [10 mV]
11:45 11:50 11:55	(L/min.) 2.00 200 200 200 200	<u>Removed</u> INITIAL (000 2000 3000	(ft TIC) 	(Cetatus) (3%)* - - 20.20 [9.98	<u>i0.1 unitsp</u> - - 7. 3 q 7. 3 q	(mS/cm) [3%]* —	(NTU) (10% or 1 NTUP 28	00% (mg/l) (10% 20.1 mg/l) 	ORP (mV) [10 mV] - - - - - - - - - - - - - - - - - - -
11:45 11:50 11:55 12:00	(L/min.) 200 200 200 200 200 200	Removed INMAL 1000 2000 3000 4000	(ft TIC) 	(Colorius) [3%]" 	<u>i0.1 unitsp</u> - - - 7. 3 q 7. 3 q 7. 3 q 7. 3 q	(mS/cm) [3%]* - - [, 2,38	(NTU) (10% or 1 NTUP 28 8 5	00% (mg/l) (10% 0)0.1 mg/l - - 109.3 E7.3	ORP (maV) [10 mV] - - - - - - - - - - - - - - - - - - -
11:45 11:50 11:55 12:00 12:05	(L/min.) 200 200 200 200 200 200	Removed INITIAL 1000 2000 3003 4003 5000	(ft TIC) 	(Cetatus) (3%)* - - 20.20 [9.98	<u>i0.1 unitsi</u> - - 7. 3 q 7. 3 q 7. 3 q 7. 3 q	(ms/cm) [3%]* - - 1, 2, 3 8 1, 25 8 [, 25 8 (, 24 1	(NTU) 10% or 1 NTUP 28 5 3	00% (mg/l) (10% 00.1 mg/l 	0RP (mV) [10 mV] - - - - - - - - - - - - - - - - - - -
11:45 11:50 11:55 12:00 12:15 12:10	(L/min.) 200 200 200 200 200 200	Removed INMAL 1000 2000 3000 4000	(ft TIC) 	(Cetatus) [3%]* - 20.20 [9.98 20.01 [9.99	<u>i0.1 unitsp</u> - - - 7. 3 q 7. 3 q 7. 3 q 7. 3 s - 7. 5 s	(ms/cm) (3%)* - - 1, 2, 3 % 1, 25 % 1, 25 % 1, 26 2	(NTU) [10% or 1 NTUP 28 5 5 3 4 2	00% (mg/l) (10% 20.1 mg/l 	0RP (mV) [10 mV] - - - - - 208, - 208,
11:45 11:50 11:55 12:00 12:05	(L/min.) 200 200 200 200 200 200	Removed INMAL 1000 2000 3000 4000 5000 6000	(ft TIC) 	(Coloris) [3%]"  20.20 [9.98 20.01 [9.99 [9.86	<u>i0.1 unitsp</u> - - 7. 3 q 7. 3 q 7. 3 q 7. 3 c 7. 5 c 7. 5 c 7. 3 c	(ms/cm) <u>[3%]</u> - - 1, 2, 3 % 1, 25 % (, 24 1 1, 26 2 1, 26 4	(NTU) (10% or 1 NTUP 28 5 3 4 2 2	00% (mg/l) (10% 00.1 mg/l 	0RP (mV) [10 mV] - - - - - - - - - - - - - - - - - - -
11:45 11:50 11:55 12:00 12:05 12:10 12:13	(L/min.) 200 200 200 200 200 200 200	Removed INMAL 1000 2000 3000 4000 5000 6000 6000	(fr TIC) 	(Cotatus) [3%] - - 20.20 19.98 20.01 19.99 19.86 19.88	<u>i0.1 unitsp</u> - - 7. 3 q 7. 3 q 7. 3 q 7. 3 c 7. 5 c 7. 5 c 7. 5 c 7. 5 c 7. 4 c	(ms/cm) <u>(3%)</u> - - 1, 2, 38 1, 258 1, 258 (, 261 1, 262 1, 264 1, 264	(NTU) (10% or 1 NTUP 28 5 3 4 2 2 2 2	00% (mg/l) ( $10\%$ $0.1$ mg/l - 109.3 57.3 72.3 5.21 4.38	0RP (mV) [10 mV] - - - - - - - - - - - - - - - - - - -
11:45 11:50 11:55 12:00 12:05 12:10 12:13 *The stabilization OBSERVATION	(L/min.) 2.00 200 200 200 200 200 200 20	Removed IN MAL (000 2000 3000 4000 5000 GOO GOO GOO Child parameter	(ft TIC) 	(Cetatus) [3%]* - 20.20 19.98 20.01 19.99 19.86 19.88 19.88 utive readings co	i0.1 unitst - - 7.3 q 7.3 q 7.3 c 7.3 c 7.5	(mS/cm) [3%]* - - 1, 2, 3 % 1, 25 % 1, 25 % (, 24, 1 1, 26 2 1, 26 4 1, 26 4 1, 26 4 1, 26 4	(NTU) (10% or 1 NTUP 28 5 3 4 2 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5	00% (mg/l) (10% $0.1$ mg/l - - - - - - - - - - - - - - - - - - -	0RP (mV) [10 mV] 
11:45 11:55 11:55 12:00 12:05 12:10 12:13 *The stabilization OBSERVATION	(L/min.) 2.00 200 200 200 200 200 200 20	Removed IN MAL (000 2000 3000 4000 5000 GOO GOO GOO Child parameter	(ft TIC) 	(Cetatus) [3%]* - 20.20 19.98 20.01 19.99 19.86 19.88 19.88 utive readings co	i0.1 unitst - - 7.3 q 7.3 q 7.3 c 7.3 c 7.5	(mS/cm) [3%]* - - 1, 2, 3 % 1, 25 % 1, 25 % (, 24, 1 1, 26 2 1, 26 4 1, 26 4 1, 26 4 1, 26 4	(NTU) (10% or 1 NTUP 28 5 3 4 2 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5	00% (mg/l) (10% $0.1$ mg/l - - - - - - - - - - - - - - - - - - -	0RP (mV) [10 mV] 
11:45 11:50 11:55 12:00 12:05 12:10 12:10 12:13 * The stabilization OBSERVATIONS WOTE:	(L/min.) 2.00 200 200 200 200 200 200 20	Removed           INITIAL           1000           2000           3000           4000           5000           G000           G000	(fr TIC) 	(Continue) [3%] - 20.20 19.98 20.01 19.99 19.86 19.88 19.88 Univer readings on Initial	i0.1 unitst - - 7.3 q 7.3 q 7.3 c 7.3 c 7.5	(mS/cm) [3%]* - - 1, 2, 3 % 1, 25 % 1, 25 % (, 24, 1 1, 26 2 1, 26 4 1, 26 4 1, 26 4 1, 26 4	(NTU) (10% or 1 NTUP 28 5 3 4 2 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5	00% (mg/l) (10% $0.1$ mg/l - - - - - - - - - - - - - - - - - - -	0RP (mV) [10 mV] 
11:45 11:50 11:55 12:00 12:05 12:10 12:10 12:10 12:13	(L/min.) 2.00 200 200 200 200 200 200 20	Removed IN MAL (000 2000 3000 4000 5000 GOO GOO GOO Child parameter	(fr TIC) 	(Continue) (3%) - - 20.20 19.98 20.01 19.99 19.86 19.86 19.88 19.88 19.88 19.88 19.88 19.88 12.00 RE 16.74,	10.1 unitst - - - - - - - - - - - - -	(ms/cm) [3%]* - - 1, 2, 3 % 1, 25 % 1, 25 % 1, 25 % 1, 26 2 1, 26 2 1, 26 4 1, 26	(NTU) (10%  or  1  NTUP) 28 5 3 4 2 2 2 2 2 3 4 2 2 2 3 4 2 2 3 4 2 3 4 2 3 4 2 3 4 3 4 2 3 4 2 3 4 3 4 2 3 4 3 4 2 3 4 3 4 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 4 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3	00% (mg/l) ( $10\%$ $0.1$ mg/l <sup><math>10</math> </sup>	0RP (mV) [10 mV] 
11:45 11:50 11:55 12:00 12:05 12:10 12:13 *The stabilization OBSERVATIONS NOTE: 1	(L/min.) 2.00 200 200 200 200 200 200 20	Removed           INITIAL           1000           2000           3000           4000           5000           G000           G000	(fr TIC) 	(Continue) (3%) - - 20.20 19.98 20.01 19.99 19.86 19.86 19.88 19.88 19.88 19.88 19.88 19.88 12.00 RE 16.74,	10.1 unitst - - - - - - - - - - - - -	(ms/cm) [3%]* - - 1, 2, 3 % 1, 25 % 1, 25 % 1, 25 % 1, 26 2 1, 26 2 1, 26 4 1, 26	(NTU) (10%  or  1  NTUP) 28 5 3 4 2 2 2 2 2 3 4 2 2 2 3 4 2 2 3 4 2 3 4 2 3 4 2 3 4 3 4 2 3 4 2 3 4 3 4 2 3 4 3 4 2 3 4 3 4 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 4 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3	00% (mg/l) (10% $0.1$ mg/l - - - - - - - - - - - - - - - - - - -	0RP (mV) [10 mV] 
11:45 11:55 12:00 12:05 12:10 12:10 12:13 *The stabilization OBSERVATIONS WOTE: 1 DC	(L/min.) 2.00 200 200 200 200 200 200 20	Removed           INITIAL           1000           2000           3000           4000           5000           G000           G000	(fr TIC) 	(Continue) (3%) - - 20.20 19.98 20.01 19.99 19.86 19.86 19.88 19.88 19.88 19.88 19.88 19.88 12.00 RE 16.74,	10.1 unitst - - - - - - - - - - - - -	(ms/cm) [3%]* - - 1, 2, 3 % 1, 25 % 1, 25 % 1, 25 % 1, 26 2 1, 26 2 1, 26 4 1, 26	(NTU) (10%  or  1  NTUP) 28 5 3 4 2 2 2 2 2 3 4 2 2 2 3 4 2 2 3 4 2 3 4 2 3 4 2 3 4 3 4 2 3 4 2 3 4 3 4 2 3 4 3 4 2 3 4 3 4 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 4 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3	00% (mg/l) ( $10\%$ $0.1$ mg/l <sup><math>10</math> </sup>	0RP (mV) [10 mV] 
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11:45 11:50 11:55 12:00 12:05 12:10 12:13 * The stabilization OBSERVATIONS WOTE: DOTE: Definitions Laboratory: Definitions	(Lmin.) $2.00$	Removed           INITIAL           1000           2000           3000           4000           5000           G000           G000	(fr TIC) 	(Continue) (3%) - - 20.20 19.98 20.01 19.99 19.86 19.86 19.88 19.88 19.88 19.88 19.88 19.88 12.00 RE 16.74,	10.1 unitst - - - - - - - - - - - - -	(ms/cm) [3%]* - - 1, 2, 3 % 1, 25 % 1, 25 % 1, 25 % 1, 26 2 1, 26 2 1, 26 4 1, 26	(NTU) (10%  or  1  NTUP) 28 5 3 4 2 2 2 2 2 3 4 2 2 3 4 2 2 3 4 2 3 4 2 3 4 2 3 4 3 4 2 3 4 3 4 2 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 4 3 3 3 3 3 4 3 3 3 3 3 3 3 3	00% (mg/l) ( $10\%$ $0.1$ mg/l <sup><math>10</math> </sup>	0RP (mV) [10 mV] 
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11:45 11:50 11:55 12:00 12:05 12:10 12:13 * The stabilization OBSERVATIONS NOTE: Definitions Laboratory: Definitions	(Lmin.) $2.00$	Removed           INITIAL           1000           2000           3000           4000           5000           G000           G000	(fr TIC) 	(Containes) (3%)" - 20.20 19.98 20.01 19.99 19.86 19.86 19.88 Unition 12:00 RE 12:00 RE 12:00 RE	10.1 unitst - - - - - - - - - - - - -	(ms/cm) [3%] - - 1,238 1,258 1,258 1,264 1,	(NTU) (10%  or  1  NTUP) 28 5 3 4 2 2 2 2 2 3 4 2 2 3 4 2 2 3 4 2 3 4 2 3 4 2 3 4 3 4 2 3 4 3 4 2 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 4 3 3 3 3 3 4 3 3 3 3 3 3 3 3	00% (mg/l) ( $10\%$ $0.1$ mg/l <sup><math>10</math> - 109.3 57.3 72.3 5.21 4.38 3.67 column heading.</sup>	0RP (mV) [10 mV] 
11:45 11:50 11:55 12:00 12:05 12:00 12:05 12:10 12:10 12:10 12:00 10	(L/min.) $2.00$ $2.0$	Removed           INITIAL           1000           2000           3000           4000           5000           G000           G000	(fr TIC) 	(Containes) (3%)" - 20.20 19.98 20.01 19.99 19.86 19.86 19.88 Unition 12:00 RE 12:00 RE 12:00 RE	10.1 unita; - - 7.39 7.39 7.39 7.35 7.35 7.35 7.35 7.35 7.40 purges HOINGS L	(ms/cm) [3%] - - 1,238 1,258 1,258 1,264 1,	(NTU) (10%  or  1  NTUP) 28 5 3 4 2 2 2 2 2 3 4 2 2 3 4 2 2 3 4 2 3 4 2 3 4 2 3 4 3 4 2 3 4 3 4 2 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 4 3 3 3 3 3 4 3 3 3 3 3 3 3 3	00% (mg/l) ( $10\%$ $0.1$ mg/l <sup><math>10</math> - 109.3 57.3 72.3 5.21 4.38 3.67 column heading.</sup>	0RP (mV) [10 mV] 
11:45 11:50 11:55 12:00 12:05 12:10 12:13 * The stabilization OBSERVATIONS NOTE: Definitions Laboratory: Definitions	(L/min.) $2.00$ $2.0$	Removed           INITIAL           1000           2000           3000           4000           5000           G000           G000	(fr TIC) 	(Containes) (3%)" - 20.20 19.98 20.01 19.99 19.86 19.86 19.88 Unition 12:00 RE 12:00 RE 12:00 RE	10.1 unita; - - 7.39 7.39 7.39 7.35 7.35 7.35 7.35 7.35 7.40 purges HOINGS L	(ms/cm) [3%] - - 1,238 1,258 1,258 1,264 1,	(NTU) (10%  or  1  NTUP) 28 5 3 4 2 2 2 2 2 3 4 2 2 3 4 2 2 3 4 2 3 4 2 3 4 2 3 4 3 4 2 3 4 3 4 2 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 4 3 3 3 3 3 4 3 3 3 3 3 3 3 3	00% (mg/l) ( $10\%$ $0.1$ mg/l <sup><math>10</math> - 109.3 57.3 72.3 5.21 4.38 3.67 column heading.</sup>	0RP (mV) [10 mV] 

Site/GMA Name <u>GMP</u> (\* Sampling Personnel <u>enc/04</u> Date <u>10/(5/08</u> Weather <u>Suny</u> - Wi 703 Mid

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WELL INFORMATION - See Page 1

Time	Pump Rate	Total Gallons	Water Level	Temp. (Celsius)	рН	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]		[10% or 0.1 mg/i]*	(10 mV)*
12:16	200	7200	••••	19.82	7.41	1.266	3 2	2-66	- 201.5
12:19	700	7800		19.96	7.42	1.265	۷.	1,99	-198.3
12:22	200	8400	-	20.00	7.41	1.264 1.265 1.265	2	1.66	-177.5
12:25	Sea	9000		19.99	7.42	1.265	12	1.39	-1842
12:33	200	9600		19.99	7.43	1.265	2	1.40	-184.4
12:31	700	10200		19.98	7.41	1,265	2_	1.41	-185.3
12:35	SAMPL	-ET							
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\* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. OBSERVATIONS/SAMPLING METHOD DEVIATIONS

GROUNDWATER	SAMPLING LOG
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PAGE 1 ar

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Kay	No. <u>1.55</u>			Sa	Sile/GillA Nam mpling Personn	ل_الاقاند_	1- LIMAN	S. K.	EIEUZ, M
	Background (p				Dav		ξ		
1464	Headspace (p	pm)		·	Vienthe				
WELL INF	ORMATION						•	to	
Refer	once Point Meri	w Y Shee						m <u>10:45</u>	
Hoigh	t of Reference F	oint	Mean. Fro	xm				10 1335-16	5
-	Well Diam		<u> </u>				Duplicate MS/MS		
Se	veen Interval Di Water Table Di			m <u>Grown</u>	<u>.1</u>		Split Sample		
	Well De			m_ <u>1\c</u> mT\c					
Leng	th of Water Colu		(WOME, 1-NO	m		Required		al Paramelons;	Collected
		Not 0.6/90	lloni					Cas (Std. änt)	()
intake Dep	th of Pump/Tub	0, <u>61</u> _priv	Mosa. Fro	m <u>71c</u>				A (Exp. list) SVOCs	()
Roferen					-	()		SVOCE Be (Total)	( ) , ,
	oint Identificatio Inner (PVC) Ca					$(\mathbf{M})$		(Dissolved)	
	f Outer (Protect					( )	Metals/In	organics (Total)	( )
	Ground Surfac					()		ganics (Dissolved)	()
						()		nide (Dissolved)	()
tedevelop?	YN					()		nide (Dissolved) Os/PCDFs	()
						()		our cors os/Herbicides	
						()		Ationuation	
						()	<u>^+-</u>	(Specify)	· · ·
VACUATIO	N INFORMATIC	3 <del>N</del>				( )	Uate	(opecity)	( )
	N INFORMATIC Pump Start Tim	<b></b>				( )	Oate	(apecity)	( )
	Pump Start Tim Pump Stop Tim	• <u>9:35</u> • <u>11:00</u>	-	Þ	Evacuation Me	. ,		1	( )
Mir	Pump Start Tin Pump Stop Tim iutes of Pumpin	9:35 11:00 9 \$5	 	ŀ	Evacuation Me Peristallic Pum	thod: Bailer	() Bladder	Pump N	( )
Mir Volume of	Pump Start Tim Pump Stop Tim nutes of Pumpin Water Remove	9:35 • 11:00 • 15 • - + 5	- - L. 85gn/lon	) 	Peristallic Pum Pump Type:	thod: Bailor ( BLADTIE) BLADTIE	() Bladder Ibmensible Pump	Pump (V) (S) Other/sp Marschalle	( ) 100014 ( ) <u>Sustom (</u>
Mir Volume of	Pump Start Tin Pump Stop Tim iutes of Pumpin	9:35 • 11:00 • 15 • - + 5	- - <i>L. 85</i> 9n/lon	) 	Peristallic Pum Pump Type:	thod: Bailor ( BLADTIE) BLADTIE	() Bladder Ibmensible Pump	Pump (V) (S) Other/sp Marschalle	-Systom (
Mir Volume of	Pump Start Tim Pump Stop Tim lutes of Pumpin Water Remove Did Well Go Dry	9:35 • 11:00 • 15 • - + 5	·		Peristallic Pump Pump Type: Samples collect	thod: Bailer ( p ( ) St BLADDE text by same me	() Bladdor Ibmensible Pump n howe othod as evacuatio	Pump No (S) Other/sp Marschulk	-Systom (
Mir Volume of	Pump Start Tim Pump Stop Tim lutes of Pumpin Water Remove Did Well Go Dry ' : Water Quality	• 9:35 • 11:00 • 55 • 55 • 55 • 55 • 55 • 55 • 7 • 7 • 0 • 11:00 • 55 • 11:00 • 55 • 11:00 • 55 • 11:00 • 55 • 11:00 • 55 • 11:00 • 11:00 • 15 • 11:00 • 11:00 • 15 • 15 • 15 • 15 • 15 • 15 • 15 • 15	erial Numbers:	<u>Y5155</u>	Peristallic Pump Pump Type: Samples collect	thod: Bailer ( p ( ) St BLADDE text by same me	() Bladder Ibmensible Pump	Pump No (S) Other/sp Marschulk	-Systom (
Mir Volume of	Pump Start Tim Pump Stop Tim lutes of Pumpin Water Remove Did Well Go Dry	e 9:35 = 11:00 9 35 d <del>- 15 cast</del> ? Y N Meter Type(s) / S	iorial Numbora; Water	<u> </u>	Peristallic Pump Pump Type: Samples collect	thod: Bailor St BLADDOG tod by same me S # 4 	() Bladdor Ibmensible Pump n howe othod as evacuatio	Pump No (S) Other/sp Marschulk	-Systom (
Mir Volume of I	Pump Start Tim Pump Stop Tim lutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump	• 9:35 • 11:00 • 55 • 55 • 55 • 55 • 55 • 55 • 7 • 7 • 0 • 11:00 • 55 • 11:00 • 55 • 11:00 • 55 • 11:00 • 55 • 11:00 • 55 • 11:00 • 11:00 • 15 • 11:00 • 11:00 • 15 • 15 • 15 • 15 • 15 • 15 • 15 • 15	erial Numbers:	<u>YSI 55</u> Temp. (Ceisius)	Peristaltic Pum Pump Type: Samples collect	thod: Bailor ( b) St () St () St () St () St () Sp. Cond. () S/cm)	() Bladder Ibmensible Pump n. 1.2000	Pump N) Marschulk m? () N (spec 21009 DO (mg/l)	-Sustan (
Mir Volume of I Time	Pump Start Tim Pump Stop Tim nutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.)	e 9:35 e 11:00 9 35 d <del>-15 (at</del> ? Y N Meter Type(a) / S Total Gailone Removed	iorial Numbers; Water Level	<u>Tomp.</u> (Coinius) [3%]*	Peristaltic Pump Pump Type: Samples collect 56 MP pH i0.1 unitst*	thod: Bailor ( DLADT) tod by same me DS #44 ,Sp. Cond. (mS/cm) (3%)	() Bladder Ibmensible Pump M Some	Pump N) (Marschulk Marschulk Marschulk Marschulk N (spec 2100 (mg/l) (10% or 0.1 mg/l <sup>+</sup>	-Sustom ( ity) ORP
Mir Volume of I Time	Pump Start Tim Pump Stop Tim lutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.)	e 9:35 e 11:00 g 55 d - 55 cpat. ? Y (A) Meter Type(s) / S Total Gastore Removed D. 40	Vater Level (ft TIC)	<u>YSI 56</u> (Colaius) (3%)" 13.47	Peristaltic Purm, Pump Type: Samples collect 56 MP pH i0.1 units[* 7.0%	thod: Bailor ( b) St () St () St () St () St () Sp. Cond. () S/cm)	() Bladder Ibmensible Pump n. 1.2000	Pump N) Marschulk m? () N (spec 21009 DO (mg/l)	-Sustom ( ity) ORP (mV)
Mir Volume of I Time 9 <u>15(0</u> 0:00	Pump Start Tim Pump Stop Tim nutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (L/min.)	e 9:35 e 11:00 g 35 d <del>15 (st.</del> ? Y N Metor Type(s)/S Total Gailone Removed D.40 0.66	orial Numbers; Water Level (ft TIC)	<u>Tomp.</u> (Coinius) [3%]*	Peristaltic Pump Pump Type: Samples collect 56 MP pH i0.1 unitst*	thod: Bailor ( DLADT) tod by same me DS #44 ,Sp. Cond. (mS/cm) (3%)	() Bladder Ibmensible Pump M Some	Pump N) Marschulk Marschulk Marschulk N (spec 2100 DO (mg/l) (10% or 0.1 mg/l) (10% or 0.1 mg/l)	- <u>Systom (</u> ay) ORP (mV) [10 mV] -Ц.Э
Mir Volume of I Time 9 <u>-5()</u> 0:00	Pump Start Tim Pump Stop Tim lutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.)	e 9:35 e 11:00 g 55 d - 55 cpat. ? Y (A) Meter Type(s) / S Total Gastore Removed D. 4D	Vater Level (ft TIC)	YSI 56 Temp. (Cetatus) [3%] <sup>2</sup> 13.47 13.60	Peristaltic Pum Pump Type: Samples collect <u>56 MP</u> pH i0.1 unitst <sup>e</sup> 7.0% 6.73	thod: Bailor ( CL/21/37) E CL/21/37) E tod by same me C/5 # 4 (mS/cm) (3%) 1.205 1.215	() Bladder abmersible Pump N. Powe	Pump N) (3) Other/sp <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>1000</u> (mg/l) (10% or 0.1 mg/l <u>3.24</u> <u>1.93</u>	-545ton ( av) ORP (mV) [10 mV] -4.2 -4.2
Mir Volume of I	Pump Start Tim Pump Stop Tim nutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (L/min.)	e 9:35 11:00 9 35 d <del>15:00</del> 9 75 d <del>15:00</del> 9 7 Netor Type(s)/S Total Galione Removed 0.40 0.66	Valer Level (ft TIC)	YSI 56 (Colsius) (3%)* 13.47 13.60 13.60	Peristalitic Purm Pump Type: Samples collect 56 MP pH i0.1 units[" 7.055 6.73 6.73	thod: Bailor $p_{(1)}$ St $p_{(2)}$ St p	() Bladder Ibmensible Pump n	Pump N) Marschulk Marschulk Marschulk Marschulk N (spec 21009 00 (mg/l) (10% or 0.1 mg/l] 3.24 1.93 1.96	-54570m ( av) ORP (mV) [10 mV] -4,2 -4,2 -4,7
Mir Volume of Time 9:5() 0:00 0:05 0:10	Pump Start Tim Pump Stop Tim utes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (Umin.) \OO \OO \S. 	e 9:35 11:00 s 15 	Vater Level (ft TIC)	<u>YSI 56</u> (Contras) (3%)" 13.47 13.60 13.60 13.64	Peristaltic Pum Pump Type: Samples collect C. MP pH i0.1 unitst 7.055 6.73 6.73 6.74 6.58	thod: Bailor () St () S	() Bladder abmersible Pump N Downe	Pump N) (3) Other/sp <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>1000</u> (mg/l) (10% or 0.1 mg/l <u>3.24</u> <u>1.93</u>	-545ton ( av) ORP (mV) [10 mV] -4.2 -4.2
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Mir Volume of Time 9:50 0:00 0:00 0:05 0:10 0:15 0:10	Pump Start Tim Pump Stop Tim nutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) \DO \DO \DO \S 	e 9:35 11:00 9 35 9 45 9 7 N Meter Type(s)/S Total Gallone Removed 0.40 0.40 0.66 0.86 0.86 0.96 1.06	Vater Level (ft TIC)	<u>YSI 56</u> (Contras) (3%)" 13.47 13.60 13.60 13.64	Peristaltic Pum Pump Type: Samples collect C. MP pH i0.1 unitst 7.055 6.73 6.73 6.74 6.58	thod: Bailor () St () S	() Bladder abmersible Pump N Downe	Pump N) (J) Other/Sp Ma-J Chulk Ma-J Chulk Ma-J Chulk Ma-J Chulk Ma-J Chulk N (spec 21009 00 (mg/l) (10% or 0.1 mg/l 1.93 1.93 1.94 1.94 1.95	-Systom ( av) ORP (mV) [10 mV] -4.2 -4.2 -4.2 -4.2 -4.2 -4.2 -4.2 -4.2
Mir Volume of Time 9:5() 0:00 0:05 0:10	Pump Start Tim Pump Stop Tim lutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) \DO \DO \DO \S 	e 9:35 11:00 9 35 d <del>15:00</del> 9 75 Metor Type(s)/S Total Gailone Removed 0.40 0.66 0.76 0.86 0.96	Crial Numbers: Vestor Level (ft TIC)	<u>Tomp.</u> (Constant) [3%]" 13.47 13.60 13.60 13.64 13.64 13.64 13.64	Peristalitic Pum Pump Type: Samples collect 56. MP pH i0.1 unitsp 7.0% 6.73 6.73 6.73 6.73 6.73 6.73	thod: Bailer (1) St (2) St (2) $(2)$	() Bladder abmersible Pump N Downe	Pump N) (3) Other/sp Manschilk Manschilk Manschilk Manschilk N (spec 2) 00 (mg/l) (10% or 0.1 mg/l 1.0% 1.93 1.56 1.94 1.95 1.93	-5/570m ( 34) ORP (mV) [10 mV]* -4.2 (4 7.7 7.6 9.7 10.58
Mir Volume of TIme 9:50 0:00 0:05 0:05 0:15 0:15 0:25	Pump Start Tim Pump Stop Tim nutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) \DO \DO \DO \S 	e 9:35 11:00 9 35 9 45 9 7 N Meter Type(s)/S Total Gallone Removed 0.40 0.40 0.66 0.86 0.86 0.96 1.06	Vater Level (ft TIC)	Y51 56 (Colsius) (SM)* 13.47 13.47 13.60 13.60 13.64 13.64 13.61 13.66 13.51	Peristalitic Purm Pump Type: Samples collect 56 MP pH i0.1 units[* 7.0% 6.73 6.73 6.73 6.74 6.% 6.% 1 6.% 1 6.% 1 6.%	thod: Bailor P() St D(1)(7)) tod by same me D(5) # 4 (ms/cm) (3%) 1.205 1.215 1.2	() Bladder Ibmensible Pump n 1000	Pump N) Marschulk Marschulk Marschulk Marschulk Marschulk Marschulk Marschulk N (spec 21009 00 (mg/l) (10% or 0.1 mg/l] 1.93 1.93 1.93 1.93 1.93	-5,570m ( my) (my) (10 my) -4,2 -4,2 -4,2 -4,2 -4,2 -4,2 -4,2 -4,2 -4,2 -4,2 -4,2 -4,2 -4,2 -5,6 -4,2 -5,6 -1,7 -5,6 -5,7 -5,7 -5,6 -5,7
Mir Volume of Three 7:50 0:00 0:00 0:05 0:10 0:15 0:10 0:15 0:10 0:15 0:10 0:15 0:15	Pump Start Tim Pump Stop Tim Nates of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) \DO \DO \DO T5 	$\begin{array}{c}                                     $	Corial Numbers:	<u>Y51 56</u> (Constan) (Solid (3%) <sup>-</sup> 13.47 13.47 13.60 13.60 13.64 13.61 13.56 13.51 13.49	Peristaltic Pum Pump Type: Samples collec 56 MP pH i0.1 unitsp 7.05 6.73 6.73 6.73 6.73 6.73 6.73 6.73 6.73	thod: Bailor ( $B_{1}$ ) St $B_{1}$ $B_{1}$ $B_{2}$	() Bladder abmersible Pump 1 Downe	Pump N) (J) Other/sp <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marschalk</u> <u>Marscha</u>	-5/570m ( 34) ORP (mV) [10 mV]* -4.2 (4 7.7 7.6 9.7 10.58
Mir Volume of Time 9:5() 0:00 0:05 0:105 0:15 0:15 0:15 0:25 0:30 e stabilizatio	Pump Start Tim Pump Stop Tim Nates of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) \DO \DO \DO T5 	$\begin{array}{c}         9 : 35 \\         11:00 \\         9 : 35 \\         9 : 35 \\         9 : 5 \\         7 : 7 \\         N \\         Metor Type(s)/S \\         Total \\         Gashone \\         Removed \\         0.40 \\         0.40 \\         0.66 \\         0.766 \\         0.86 \\         0.96 \\         1.06 \\         1.06 \\         1.19 \\         1.32 \\         1.32         $	Valer Level (ft TIC)	<u>Tomp.</u> (Conting) [3%]" 13.47 13.60 13.60 13.64 13.64 13.64 13.64 13.64 13.64 13.64 13.64	Peristaltic Pum, Pump Type: Samples collect 56 MP pH i0.1 units 7.05 6.73 6.73 6.73 6.73 6.73 6.73 6.73 6.73	thod: Bailor ( P(1) St D(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(	() Bladder abmersible Pump 1 Powe	Pump N) (3) Other/sp <u>Marschulk</u> (3) N (spec 2) OO (mg/l) (10% or 0.1 mg/l 1.0% or 0.1 mg/l 1.93 1.56 1.94 1.95 1.92 1.86 1.93 2.59 2.50	-5/570m ( 30) ORP (mV) (10 mV)* -4.2 (4 7.7 3.6 9.7 10.5 11.2 11.2
Mir Volume of Time 9:50 0:00 0:05 0:10 0:15 0:10 0:15 0:10 0:15 0:10 0:15 0:10 0:15 0:10 0:15 0:10 0:15 0:10 0:15 0:15	Pump Start Tim Pump Stop Tim nutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) \DO \DO \DO \DO \DO \DO \DO \DO \DO \DO	$\begin{array}{c}                                     $	Valer Level (ft TIC)	YSI 56       Tomp.       (Cointus)       [3%]"       13.47       13.60       13.62       13.64       13.64       13.64       13.65       13.51       13.49       13.64       13.65       13.64       13.65       13.64       13.65       13.76       13.64	Peristaltic Pum, Pump Type: Samples collect 56. MP pH i0.1 units; 7.055 6.73 6.73 6.73 6.73 6.73 6.73 6.73 6.73	thod: Bailor ( P(1) St D(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(	() Bladder abmersible Pump 1 - Dive	Pump N) (3) Other/sp <u>Marschulk</u> (3) N (spec 2) OO (mg/l) (10% or 0.1 mg/l 1.0% or 0.1 mg/l 1.93 1.56 1.94 1.95 1.92 1.86 1.93 2.59 2.50	-5/570m ( 30) ORP (mW) (10 mV) -4.2 (.4 7.7 3.6 9.7 10.5 11.2 11.5 N (TIEN)

Delivered Via: UPS Airbill #: -----

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Zzzt Field Sampling Coordinator:

C14/ORIOGEGesyndemetri/S04190AllschmardD-2

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## GROUNDWATER SAMPLING LOG

Well No. 155C-165

Site/GMA Name <u>CMAI-LIMAN</u> St. HTTSFIELD Sampling Personnel <u>DVCA</u> Date 15/11/03 Weather RODUC, 55

WELL INFORMATION - See Page 1

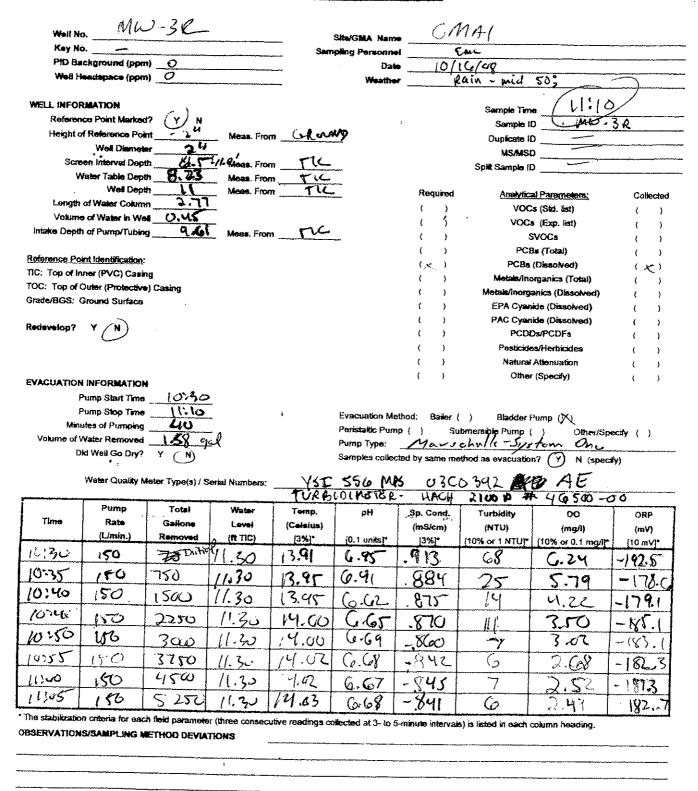
Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) (10 mV]*
10:35	100	1.46		13.50	6:83	1.270	8	1.87	11.7
10:410	100	1.59	-	13.50	6,92	1.273	*	190	O.CI
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\* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. OBSERVATIONS/SAMPLING METHOD DEVIATIONS

VIGE\_Pillsfield\_General\_ConfidentizAReports and Presentations/FSP\_QAPP UpdateREV04Attachment D-2GWsampform\_DRAFTv1.xis

PAGE OF

#### GROUNDWATER SAMPLING LOG

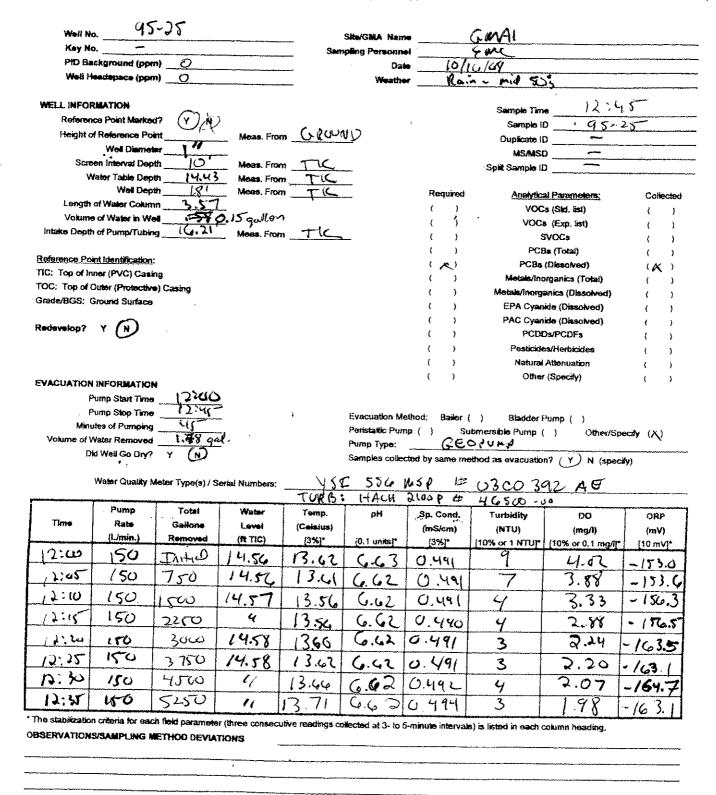


SAMPLE DESTINATION Laboratory JGJ Delivered Via: UPJ Airbill#

Field Sampling Coontinuetor

CTWORKIGEGroundwater/064186Alanchaave2-2

PAGE OF Z



SAMPLE DESTINATION Laboratory, 565 Delivered Via: UP/ Airbill #:

Field Sampling Coordinator:

C3WORICGEGeneration/054199/MachaevelD-2

Well No.

ME 95-25

Site/GMA Name

Sampling Personnel <u>Emc</u>

Date 14/16/28 Weather Ram High

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505

GmA."

WELL INFORMATION - See Page 1

Time	Pump Rate	Total <sup>(</sup> Gallons	Water Level	Temp. (Celsius)	рН	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]*	{10% or 0.1 mg/i]*	[10 mV]*
12740	150	6000		13.72	6.63	0.495	3	1.92	-163.7
12:45	150 Stock	6000 = 5AMP	LE.						
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\* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS

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WELL INFO Referer Height o Scru V Length	RMATION nce Point Mar of Reference : Well Dian	iked? Y N	<del> </del>		المستعلقات				
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V Longth	een interval D						MSAM		····
Longth	Netor Table D	124		om <u>Groune</u>	<u>/</u>		Spill Sample		
	WellD			om TIC					
	of Water Gol	umn <u>8. 21'</u>				Required	C.S.C.L.	cal Parameters;	Coli
		Well 1.34 90				( )		Cs (Std. äst) Ce (Exp, list)	(
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Reference Po	unt Hentlinet					$\langle , \rangle$	PC	:Bu (Total)	(
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TOC: Top of (						( )		norganics (Total)	(
Grade/BGS; (	Ground Surfa	ca .						genics (Dissolved)	(
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Redevelop?	YN					( )		XDs/PCOFs	(
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EVACUATION	INFORMATE	ON				()	Othe	er (Specify)	(
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Di	Vater Removi Id Well Go Dr	ng 125			Peristatic Pu Pump Type: Samples colle	mp() S <u>Marr</u> c socted by seme m X #4	ubmensible Pump Aulk -Syr othog as evacuation HBKH	() Other/S; <u>fom One</u> on? © N (spec	зіўу) 
Di	Vater Remove Id Weil Go Dry Water Quality	ng <u>\</u> ed <u>er <b>A</b>_E5 con</u> y? Y (N) y Metor Type(s) / :	Serial Numbers	Temp. (Celeius) [3%]*	Peristatilo Pu Pump Type: Samples colle	mp ( ) S <u>Marrie</u> sected by same m <u>S</u> # <u>4</u> <u>Sp. Cond.</u> (mS/cm)	ubmensible Pump <u>Aulk -Syr</u> othod as evacuatic <u>HRH</u> Turbidity (NTU)	() Other/S; <u>fom On c</u> 007 © N (spec <u>2100</u> P <u>00</u> (mg/l)	afy) OR₽ (mV)
Di	Vater Remove id Well Go Dry Water Quality Pump Rate	ng <u>15</u> ed e <u>7 5 con</u> y? Y <u>N</u> y Metor Type(s) / : Total Galione	Sorial Numbers Water Lavel (ft TIC)	Temp. (Celeius)	Peristatic Pu Pump Type: Samples colle bb MP	mp () S Marre sected by same m 3 #4 Sp. Cond.	ubmensible Pump Lulk -Syr othod an evacuation DY H Turbidity (NTU) (10% or 1 NTUP	() Other/S; <u>4 cm On c</u> on? DN (spec <u>21(DDP</u> <u>10% or 0.1 mg/f</u>	⊐fy) OR₽ (mV) [10 m\
Di	Vater Removi id Well Go Dry Water Quality Pump Rate (L/min.)	ng <u>13'5</u> ed e <u>25 con</u> y? Y (N) y Metor Type(s) / 3 Total Gaillone Removed	Sorial Numbers Water Level (R TIC)	Temp. (Celsius) [3%]*	Peristattic Pu Pumpi Type: Samples colit 56 MP pH i(0.1 units)*	mp ( ) S <u>Marrie</u> sected by same m <u>S</u> # <u>H</u> (mS/cm) [3%]*	ubmensible Pump <u>Lulk - Syr</u> othod an evacuation <u>HRLH</u> Turbidity (NTU) (10% or 1 NTUP <u>3</u> W	() Other/S; <u>fom One</u> on? DN (spec <u>21(D)</u> DO (mg/l) [10% or 0.1 mg/l]	
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Di Time 11:50 11:55 12:00	Vater Removi id Weil Go Dr Water Quality Pump Rate (Umin.) 100 100	ng 125 ed er 25 c.p. y? Y N y Metor Type(s)/: Total Galione Removed 0.13 0.26 0.36	Sorial Numbers Water Level (R TIC) 10,16 10,24 10,21	Temp. (Celeius) [3%]* 	Peristatic Pu Pump Type: Samples colit DGPH i(0.1 units)*	mp ( ) S <u>Mars</u> c sected by same m <u>S</u> # <u>H</u> <u>Sp. Cond.</u> (InStem) [3%]*	ubmensible Pump Lulk -Syr othod an evacuation HRVH Turbidity (NTU) (10% or 1 NTUP 310 340 340 340 345	() Other/S; <u>fom One</u> on? DN (spec <u>21(D)</u> <u>100</u> (mg/l) [10% or 0.1 mg/l] 	
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□ 11:50 11:55 12:00 12:10 12:20	Vater Removi id Weil Go Dr Water Quality Pump Rate (L/min.) 100 100 15 15	ng 125 ed er 25 c.p. y? Y N y Metor Type(s)/: Total Gailone Removed 0.13 0.26 0.36 0.56 0.76	Sorial Numbers Urater Level (R TIC) 10.16 10.24 10.21 10.20 10.20	Temp. (Celsius) [3%]*	Peristattic Pu Pump Type: Samples colle 26 MP pH i(0,1 units)*	mp ( ) S <u>Mars</u> c sected by seme m <u>S</u> # <u>H</u> (mStem) [33] <sup>2</sup> -	ubmensible Pump <u>Lu/k - Syr</u> othod an evacuation <u>Turbidity</u> (NTU) (10% or 1 NTUP <u>300</u> <u>3665</u> <u>205</u> 175 130	() Other/S; <u>fom One</u> on? DN (spec <u>21(D)</u> <u>100</u> (mg/l) [10% or 0.1 mg/l] 	STY) ORF (mV) [10 m) 
Tarree 11:50 11:55 12:00 12:10 12:10 12:15	Vater Removi id Weil Go Dry Water Quality Pump Rate (L/min.) 100 100 100 15 75 75	ng 125 ed e 25 con y? Y (N) y Meter Type(s)/3 Total Galione Removed 0.13 0.26 0.36 0.56 0.76 0.96	Serial Numbers Water Level (ft TIC) 10,34 10,34 10,30 10,30	Temp. (Celeius) [3%]*	Peristatic Pu Pump Type: Samples colit DGPH i(0.1 units)*	mp ( ) S <u>Mars</u> c sected by same m <u>S</u> # <u>H</u> <u>Sp. Cond.</u> (InStem) [3%]*	ubmensible Pump La/k -Syr othod as evacuatic Introdity (NTU) (10% or 1 NTUP 3/0 3/6 3/6 205 175	() Other/S; <u>fom Oh</u> 2 on? DN (spec <u>21(DDP</u> ) <u>DO</u> (mg/l) [10% or 0.1 mg/l] 	=fy) ORF (mV) [10 m) ~ ~
□ 11:50 11:55 12:00 12:10 12:20 12:30	Vater Removi id Weil Go Dr Water Quality Pump Rate (L/min.) 100 100 15 15	ng 125 ed er 25 c.p. y? Y N y Metor Type(s)/: Total Gailone Removed 0.13 0.26 0.36 0.56 0.76	Sorial Numbers Urater Level (R TIC) 10.16 10.24 10.21 10.20 10.20	Temp. (Celsius) [3%]*	Peristattic Pu Pump Type: Samples colle 26 MP pH i(0,1 units)*	mp ( ) S <u>Mars</u> c sected by seme m <u>S</u> # <u>H</u> (mStem) [33] <sup>2</sup> -	ubmensible Pump <u>Lu/k - Syr</u> othod an evacuation <u>Turbidity</u> (NTU) (10% or 1 NTUP <u>300</u> <u>3665</u> <u>205</u> 175 130	() Other/S; <u>fom One</u> on? DN (spec <u>DO</u> (mg/l) [10% or 0.1 mg/l   	=fy) ORF (mV) [10 m) ~ ~

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## **GROUNDWATER SAMPLING LOG**

Well No. 37R

Site/GMA Name <u>(</u> Sampling Personnel <u>(</u>

Date Kanone, 55° Weather

- IAME

TITISFIELD,

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Totał Gailons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) {10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
10:12:55	_75	1.46	10.20	8.69	1.27	0.996	ેર્ટ	0,63	25.0
13:00	75	1.56	10.20	8.67	7.36	0,995	<u> </u>	0.61	12.9
13:05	<u> </u>	1.66	10.20	8,66	7.76	0,994	20	0.64	5.0
13:10	75	1.76	10.20	8.63	1.26	0.995	21	0.66	1.5
13:15	76	1.85	10.20	53.67	7.26	0.995	14	0,63	-1.6
13:20	75	1.95	10.20	8.68	HC.L.	0994	14	0.64	- 59
13:25	75	2.05	10:30	8.10	7.24	0,993	13	0,65	-9.1
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• The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

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OBSERVATIONS/SAMPLING METHOD DEVIATIONS

# ARCADIS

# Appendix B

Fall 2008 Groundwater Analytical Results

	Location ID:		omplex		ea 1 - South	East St. Area 2 - North
	Sample ID:	ES2-19	GMA1-3	31R	37R	17A
Parameter	Date Collected:	10/23/08	10/16/08	10/30/08	10/16/08	10/16/08
Volatile Organics						
1,1,1,2-Tetrachloro		NA	NA	NA	NA	NA
1,1,1-Trichloroetha		NA	NA	NA	NA	NA
1,1,2,2-Tetrachloro		NA	NA	NA	NA	NA
1,1,2-Trichloroetha		NA	NA	NA	NA	NA
1,1-Dichloroethane		NA	NA	NA	NA	NA
1,1-Dichloroethene		NA	NA	NA	NA	NA
1,2,3-Trichloroprop		NA	NA	NA	NA	NA
1,2-Dibromo-3-chlo		NA	NA	NA	NA	NA
1,2-Dibromoethane		NA	NA	NA	NA	NA
1,2-Dichloroethane		NA	NA	NA	NA	NA
1,2-Dichloropropan	e	NA	NA	NA	NA	NA
1,4-Dioxane		NA	NA	NA	NA	NA
2-Butanone		NA	NA	NA	NA	NA
2-Chloro-1,3-butad		NA	NA	NA	NA	NA
2-Chloroethylvinyle	emer	NA	NA	NA	NA	NA
2-Hexanone 3-Chloropropene		NA NA	NA	NA	NA NA	NA NA
3-Chloropropene 4-Methyl-2-pentanc	200	NA NA	NA NA	NA NA	NA NA	NA NA
, ,	one					
Acetone Acetonitrile		NA	NA	NA	NA	NA
Acetonitrile		NA NA	NA NA	NA NA	NA NA	NA NA
Acrylonitrile		NA NA	NA	NA	NA	NA
,		NA	NA	NA	NA	
Benzene Bromodiahlaramath						NA
Bromodichlorometh Bromoform	lane	NA NA	NA NA	NA NA	NA NA	NA NA
		NA	NA	NA	NA	NA
Bromomethane Carbon Disulfide		NA	NA	NA	NA	NA
Carbon Tetrachlorid	do	NA	NA	NA	NA	NA
Chlorobenzene	ue	NA	NA	NA	NA	NA
Chloroethane		NA	NA	NA	NA	NA
Chloroform		NA	NA	NA	NA	NA
Chloromethane		NA	NA	NA	NA	NA
cis-1,3-Dichloropro	nono	NA	NA	NA	NA	NA
Dibromochlorometh		NA	NA	NA	NA	NA
Dibromomethane	laile	NA	NA	NA	NA	NA
Dichlorodifluoromet	thane	NA	NA	NA	NA	NA
Ethyl Methacrylate	unane	NA	NA	NA	NA	NA
Ethylbenzene		NA	NA	NA	NA	NA
lodomethane		NA	NA	NA	NA	NA
Isobutanol		NA	NA	NA	NA	NA
Methacrylonitrile		NA	NA	NA	NA	NA
Methyl Methacrylate	e	NA	NA	NA	NA	NA
Methylene Chloride		NA	NA	NA	NA	NA
Propionitrile		NA	NA	NA	NA	NA
Styrene		NA	NA	NA	NA	NA
Tetrachloroethene		NA	NA	NA	NA	NA
Toluene		NA	NA	NA	NA	NA
trans-1,2-Dichloroe	thene	NA	NA	NA	NA	NA
trans-1,3-Dichlorop		NA	NA	NA	NA	NA
trans-1,4-Dichloro-2		NA	NA	NA	NA	NA
Trichloroethene		NA	NA	NA	NA	NA
Trichlorofluorometh	nane	NA	NA	NA	NA	NA
Vinyl Acetate		NA	NA	NA	NA	NA
Vinyl Chloride		NA	NA	NA	NA	NA
Xylenes (total)		NA	NA	NA	NA	NA
Total VOCs		NA	NA	NA	NA	NA

Location	D: 30s C	omplex	East St. Ar	ea 1 - South	East St. Area 2 - North
Sample		GMA1-3	31R	37R	17A
Parameter Date Collecte	ed: 10/23/08	10/16/08	10/30/08	10/16/08	10/16/08
PCBs-Filtered					
Aroclor-1016	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Aroclor-1221	ND(0.00012) J	ND(0.000080) J		ND(0.000078) J	ND(0.000081) J
Aroclor-1232	ND(0.00012) J	ND(0.000080) J	(*******/*	ND(0.000078) J	ND(0.000081) J
Aroclor-1242	ND(0.00012) J	ND(0.000080) J		ND(0.000078) J	ND(0.000081) J
Aroclor-1248	ND(0.00012) J	ND(0.000080) J		ND(0.000078) J	ND(0.000081) J
Aroclor-1254	ND(0.00012) J	ND(0.000080) J		ND(0.000078) J	ND(0.000081) J
Aroclor-1260	ND(0.00012) J	ND(0.000080) J		ND(0.000078) J	ND(0.000081) J
Total PCBs	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Semivolatile Organics	N14	NIA	NIA	NIA	NIA
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene 1,2-Dichlorobenzene	NA NA	NA NA	NA NA	NA NA	NA NA
1,2-Dichlorobenzene 1,2-Diphenylhydrazine	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA
1,4-Naphthoguinone	NA	NA	NA	NA	NA
1-Naphthylamine	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA
2,6-Dichlorophenol	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA
2-Acetylaminofluorene	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA NA	NA	NA	NA NA	NA
2-Methylphenol 2-Naphthylamine	NA	NA NA	NA NA	NA	NA NA
2-Nitroaniline	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA
2-Picoline	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA
3,3'-Dimethylbenzidine	NA	NA	NA	NA	NA
3-Methylcholanthrene	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA
4-Aminobiphenyl	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA
4-Chlorobenzilate	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	NA	NA
4-Phenylenediamine	NA	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	NA
a,a'-Dimethylphenethylamine	NA NA	NA NA	NA NA	NA NA	NA NA
Acenaphthene Acenaphthylene	NA	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA
	INA I	11/7		117	11/1

Location ID:	30s C	omplex	East St. Ar	ea 1 - South	East St. Area 2 - North	
Sample ID:	ES2-19	GMA1-3	31R	37R	17A	
Parameter Date Collected:	10/23/08	10/16/08	10/30/08	10/16/08	10/16/08	
Semivolatile Organics (continued)						
Aramite	NA	NA	NA	NA	NA	
Benzidine	NA	NA	NA	NA	NA	
Benzo(a)anthracene	NA	NA	NA	NA	NA	
Benzo(a)pyrene	NA	NA	NA	NA	NA	
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	
Benzo(g,h,i)perylene	NA NA	NA NA	NA	NA NA	NA	
Benzo(k)fluoranthene Benzyl Alcohol	NA	NA	NA NA	NA	NA NA	
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA	
bis(2-Chloroethyl)ether	NA	NA	NA	NA	NA	
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	NA	
Butylbenzylphthalate	NA	NA	NA	NA	NA	
Chrysene	NA	NA	NA	NA	NA	
Diallate	NA	NA	NA	NA	NA	
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA	
Dibenzofuran	NA	NA	NA	NA	NA	
Diethylphthalate	NA	NA	NA	NA	NA	
Dimethylphthalate	NA	NA	NA	NA	NA	
Di-n-Butylphthalate	NA	NA	NA	NA	NA	
Di-n-Octylphthalate	NA	NA	NA	NA	NA	
Diphenylamine	NA	NA	NA	NA	NA	
Ethyl Methanesulfonate	NA	NA	NA	NA	NA	
Fluoranthene	NA	NA	NA	NA	NA	
Fluorene	NA	NA	NA	NA	NA	
Hexachlorobenzene	NA	NA	NA	NA	NA	
Hexachlorobutadiene	NA	NA	NA	NA	NA	
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	
Hexachloroethane	NA	NA	NA	NA	NA	
Hexachlorophene	NA	NA	NA	NA	NA	
Hexachloropropene	NA	NA	NA	NA	NA	
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	
Isodrin Isophorone	NA NA	NA NA	NA NA	NA NA	NA NA	
Isosafrole	NA	NA	NA	NA	NA	
Methapyrilene	NA	NA	NA	NA	NA	
Methyl Methanesulfonate	NA	NA	NA	NA	NA	
Naphthalene	NA	NA	NA	NA	NA	
Nitrobenzene	NA	NA	NA	NA	NA	
N-Nitrosodiethylamine	NA	NA	NA	NA	NA	
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	
N-Nitroso-di-n-butylamine	NA	NA	NA	NA	NA	
N-Nitroso-di-n-propylamine	NA	NA	NA	NA	NA	
N-Nitrosomethylethylamine	NA	NA	NA	NA	NA	
N-Nitrosomorpholine	NA	NA	NA	NA	NA	
N-Nitrosopiperidine	NA	NA	NA	NA	NA	
N-Nitrosopyrrolidine	NA	NA	NA	NA	NA	
o,o,o-Triethylphosphorothioate	NA	NA	NA	NA	NA	
o-Toluidine	NA	NA	NA	NA	NA	
p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA	
Pentachlorobenzene	NA	NA	NA	NA	NA	
Pentachloroethane	NA	NA	NA	NA	NA	
Pentachloronitrobenzene Pentachlorophonol	NA NA	NA NA	NA NA	NA NA	NA NA	
Pentachlorophenol	NA	NA	NA	NA	NA	
Phenacetin Phenanthrene	NA NA	NA NA	NA	NA	NA	
Phenol	NA NA	NA	NA	NA	NA	
Pronamide	NA	NA	NA	NA	NA	
Pyrene	NA	NA	NA	NA	NA	
Pyridine	NA	NA	NA	NA	NA	
Safrole	NA	NA	NA	NA	NA	
Thionazin	NA	NA	NA	NA	NA	

Location ID:	East St. Area 2 - North						
Sample ID:	95-20	A7-R	ES1-10	ES1-18			
Parameter Date Collected:	10/15/08	12/11/08	10/15/08	10/23/08			
Volatile Organics							
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA			
1,1,1-Trichloroethane	NA	NA	NA	NA			
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA			
1,1,2-Trichloroethane	NA	NA	NA	NA			
1,1-Dichloroethane	NA	NA	NA	NA			
1,1-Dichloroethene	NA	NA	NA	NA			
1,2,3-Trichloropropane	NA	NA	NA	NA			
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA			
1,2-Dibromoethane	NA	NA	NA	NA			
1,2-Dichloroethane	NA	NA	NA	NA			
1,2-Dichloropropane	NA	NA	NA	NA			
1,4-Dioxane	NA	NA	NA	NA			
2-Butanone	NA	NA	NA	NA			
2-Chloro-1,3-butadiene	NA	NA	NA	NA			
2-Chloroethylvinylether	NA	NA	NA	NA			
2-Hexanone	NA	NA	NA	NA			
3-Chloropropene	NA	NA	NA	NA			
4-Methyl-2-pentanone	NA	NA	NA	NA			
Acetone	NA	NA	NA	NA			
Acetonitrile	NA	NA	NA	NA			
Acrolein	NA	NA	NA	NA			
Acrylonitrile	NA	NA	NA	NA			
Benzene	NA	NA	NA	NA			
Bromodichloromethane	NA	NA	NA	NA			
Bromoform	NA	NA	NA	NA			
Bromomethane	NA	NA	NA	NA			
Carbon Disulfide	NA	NA	NA	NA			
Carbon Tetrachloride	NA	NA	NA	NA			
Chlorobenzene	NA	NA	NA	NA			
Chloroethane	NA	NA	NA	NA			
Chloroform	NA	NA	NA	NA			
Chloromethane	NA	NA	NA	NA			
cis-1,3-Dichloropropene	NA	NA	NA	NA			
Dibromochloromethane	NA	NA	NA	NA			
Dibromomethane	NA	NA	NA	NA			
Dichlorodifluoromethane	NA	NA	NA	NA			
Ethyl Methacrylate	NA	NA	NA	NA			
Ethylbenzene	NA	NA	NA	NA			
lodomethane	NA	NA	NA	NA			
Isobutanol	NA	NA	NA	NA			
Methacrylonitrile	NA	NA	NA	NA			
Methyl Methacrylate	NA	NA	NA	NA			
Methylene Chloride	NA	NA	NA	NA			
Propionitrile	NA	NA	NA	NA			
Styrene	NA	NA	NA	NA			
Tetrachloroethene	NA	NA	NA	NA			
Toluene	NA	NA	NA	NA			
trans-1,2-Dichloroethene	NA	NA	NA	NA			
trans-1,3-Dichloropropene	NA	NA	NA	NA			
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA			
Trichloroethene	NA	NA	NA	NA			
Trichlorofluoromethane	NA	NA	NA	NA			
Vinyl Acetate	NA	NA	NA	NA			
Vinyl Chloride	NA	NA	NA	NA			
Xylenes (total)	NA	NA	NA	NA			
Total VOCs	NA	NA	NA	NA			

Location ID:		East St. Area 2 - North		
Sample ID:		A7-R	ES1-10	ES1-18
Parameter Date Collected:	10/15/08	12/11/08	10/15/08	10/23/08
PCBs-Filtered				
Aroclor-1016	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1221	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1232	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1242	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1248	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1254	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1260	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Total PCBs	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Semivolatile Organics	•	· · ·		
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA
1,3,5-Trinitrobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,3-Dinitrobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
1,4-Naphthoguinone	NA	NA	NA	NA
1-Naphthylamine	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA
2,6-Dichlorophenol	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA
2-Acetylaminofluorene	NA	NA	NA	NA
	NA	NA	NA	
2-Chloronaphthalene				NA
2-Chlorophenol	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA
2-Naphthylamine	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA
2-Picoline	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA
3,3'-Dimethylbenzidine	NA	NA	NA	NA
3-Methylcholanthrene	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA
4-Aminobiphenyl	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA
4-Chlorobenzilate	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	NA
4-Phenylenediamine	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA
a,a'-Dimethylphenethylamine	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA
Acetophenone Aniline	NA NA	NA NA	NA NA	NA NA

	Location ID:	East St. Area 2 - North				
_	Sample ID:	95-20	A7-R	ES1-10	ES1-18	
Parameter	Date Collected:	10/15/08	12/11/08	10/15/08	10/23/08	
Semivolatile Orga	nics (continued)	N14	NIA	NIA	NIA	
Aramite		NA	NA	NA	NA	
Benzidine		NA	NA	NA NA	NA	
Benzo(a)anthracen	le	NA NA	NA NA	NA NA	NA NA	
Benzo(a)pyrene Benzo(b)fluoranthe	222	NA	NA	NA	NA	
Benzo(g,h,i)peryler		NA	NA	NA	NA	
Benzo(k)fluoranthe		NA	NA	NA	NA	
Benzyl Alcohol		NA	NA	NA	NA	
bis(2-Chloroethoxy)	methane	NA	NA	NA	NA	
bis(2-Chloroethyl)e		NA	NA	NA	NA	
bis(2-Chloroisoprop		NA	NA	NA	NA	
bis(2-Ethylhexyl)ph		NA	NA	NA	NA	
Butylbenzylphthala		NA	NA	NA	NA	
Chrysene		NA	NA	NA	NA	
Diallate		NA	NA	NA	NA	
Dibenzo(a,h)anthra	acene	NA	NA	NA	NA	
Dibenzofuran		NA	NA	NA	NA	
Diethylphthalate		NA	NA	NA	NA	
Dimethylphthalate		NA	NA	NA	NA	
Di-n-Butylphthalate		NA	NA	NA	NA	
Di-n-Octylphthalate	9	NA	NA	NA	NA	
Diphenylamine		NA	NA	NA	NA	
Ethyl Methanesulfo	onate	NA	NA	NA	NA	
Fluoranthene		NA	NA	NA	NA	
Fluorene		NA	NA	NA	NA	
Hexachlorobenzen		NA	NA	NA	NA	
Hexachlorobutadie		NA	NA	NA	NA	
Hexachlorocyclope	entadiene	NA	NA	NA	NA	
Hexachloroethane		NA	NA	NA	NA	
Hexachlorophene		NA	NA	NA	NA	
Hexachloropropene		NA	NA	NA	NA	
Indeno(1,2,3-cd)py	rene	NA	NA	NA	NA	
Isodrin		NA	NA	NA NA	NA	
Isophorone Isosafrole		NA NA	NA NA	NA NA	NA NA	
Methapyrilene		NA	NA	NA	NA	
Methyl Methanesul	fonato	NA	NA	NA	NA	
Naphthalene	Ionate	NA	NA	NA	NA	
Nitrobenzene		NA	NA	NA	NA	
N-Nitrosodiethylam	ine	NA	NA	NA	NA	
N-Nitrosodimethyla		NA	NA	NA	NA	
N-Nitroso-di-n-buty		NA	NA	NA	NA	
N-Nitroso-di-n-prop		NA	NA	NA	NA	
N-Nitrosomethyleth		NA	NA	NA	NA	
N-Nitrosomorpholin	ne	NA	NA	NA	NA	
N-Nitrosopiperidine		NA	NA	NA	NA	
N-Nitrosopyrrolidine		NA	NA	NA	NA	
o,o,o-Triethylphosp	ohorothioate	NA	NA	NA	NA	
o-Toluidine		NA	NA	NA	NA	
p-Dimethylaminoaz		NA	NA	NA	NA	
Pentachlorobenzen		NA	NA	NA	NA	
Pentachloroethane		NA	NA	NA	NA	
Pentachloronitrobe		NA	NA	NA	NA	
Pentachlorophenol		NA	NA	NA	NA	
Phenacetin		NA	NA	NA	NA	
Phenanthrene		NA	NA	NA	NA	
Phenol		NA	NA	NA	NA	
Pronamide		NA	NA	NA	NA	
Pyrene Duridia a		NA	NA	NA	NA	
Pyridine		NA NA	NA NA	NA NA	NA NA	
Safrole						

	Location ID:	East St. Area 2 - North	East St. Area 2 - South	Lyman Stree	et Area
	Sample ID:	F-1	95-25	LSSC-16S	MW-3R
Parameter	Date Collected:	10/15/08	10/16/08	10/16/08	10/16/08
Volatile Organics					
1,1,1,2-Tetrachloroe	thane	NA	NA	NA	NA
1,1,1-Trichloroethan	e	NA	NA	NA	NA
1,1,2,2-Tetrachloroe		NA	NA	NA	NA
1,1,2-Trichloroethan	e	NA	NA	NA	NA
1,1-Dichloroethane		NA	NA	NA	NA
1,1-Dichloroethene		NA	NA	NA	NA
1,2,3-Trichloropropa		NA	NA	NA	NA
1,2-Dibromo-3-chlore	opropane	NA	NA	NA	NA
1,2-Dibromoethane		NA	NA	NA	NA
1,2-Dichloroethane		NA	NA	NA	NA
1,2-Dichloropropane		NA	NA	NA	NA
1,4-Dioxane		NA	NA	NA	NA
2-Butanone		NA	NA	NA	NA
2-Chloro-1,3-butadie		NA	NA	NA	NA
2-Chloroethylvinyleth	ner	NA	NA	NA	NA
2-Hexanone		NA	NA	NA	NA
3-Chloropropene		NA	NA	NA	NA
4-Methyl-2-pentanon	e	NA	NA	NA	NA
Acetone		NA	NA	NA	NA
Acetonitrile		NA	NA	NA	NA
Acrolein		NA	NA	NA	NA
Acrylonitrile		NA	NA	NA	NA
Benzene		NA	NA	NA	NA
Bromodichlorometha	ne	NA	NA	NA	NA
Bromoform		NA	NA	NA	NA
Bromomethane		NA	NA	NA	NA
Carbon Disulfide		NA	NA	NA	NA
Carbon Tetrachloride	9	NA	NA	NA	NA
Chlorobenzene		NA	NA	NA	NA
Chloroethane		NA	NA	NA	NA
Chloroform		NA	NA	NA	NA
Chloromethane		NA	NA	NA	NA
cis-1,3-Dichloroprop	ene	NA	NA	NA	NA
Dibromochlorometha	ine	NA	NA	NA	NA
Dibromomethane		NA	NA	NA	NA
Dichlorodifluorometh	ane	NA	NA	NA	NA
Ethyl Methacrylate		NA	NA	NA	NA
Ethylbenzene		NA	NA	NA	NA
Iodomethane		NA	NA	NA	NA
Isobutanol		NA	NA	NA	NA
Methacrylonitrile		NA	NA	NA	NA
Methyl Methacrylate		NA	NA	NA	NA
Methylene Chloride		NA	NA	NA	NA
Propionitrile		NA	NA	NA	NA
Styrene		NA	NA	NA	NA
Tetrachloroethene		NA	NA	NA	NA
Toluene		NA	NA	NA	NA
trans-1,2-Dichloroeth	nene	NA	NA	NA	NA
trans-1,3-Dichloropro	ppene	NA	NA	NA	NA
trans-1,4-Dichloro-2-		NA	NA	NA	NA
Trichloroethene		NA	NA	NA	NA
Trichlorofluorometha	ne	NA	NA	NA	NA
Vinyl Acetate		NA	NA	NA	NA
Vinyl Chloride		NA	NA	NA	NA
Xylenes (total)		NA	NA	NA	NA
Total VOCs		NA	NA	NA	NA

	Location ID:	East St. Area 2 - North	East St. Area 2 - South	Lyman Stre	et Area
	Sample ID:	F-1	95-25	LSSC-16S	MW-3R
	e Collected:	10/15/08	10/16/08	10/16/08	10/16/08
PCBs-Filtered					
Aroclor-1016		ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Aroclor-1221		ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Aroclor-1232		ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Aroclor-1242 Aroclor-1248		ND(0.000075) J	ND(0.000075) J ND(0.000075) J	ND(0.000077) J ND(0.000077) J	ND(0.000076) J
Aroclor-1248 Aroclor-1254		ND(0.000075) J ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J ND(0.000076) J
Aroclor-1260		ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Total PCBs		ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Semivolatile Organics		110(0.000010)0	ND(0.000010)0	112(0.000017)0	110(0.000070)0
1,2,4,5-Tetrachlorobenze	ne	NA	NA	NA	NA
1.2.4-Trichlorobenzene		NA	NA	NA	NA
1.2-Dichlorobenzene		NA	NA	NA	NA
1,2-Diphenylhydrazine		NA	NA	NA	NA
1,3,5-Trinitrobenzene		NA	NA	NA	NA
1,3-Dichlorobenzene		NA	NA	NA	NA
1,3-Dinitrobenzene		NA	NA	NA	NA
1,4-Dichlorobenzene		NA	NA	NA	NA
1,4-Naphthoquinone		NA	NA	NA	NA
1-Naphthylamine		NA	NA	NA	NA
2,3,4,6-Tetrachloropheno	1	NA	NA	NA	NA
2,4,5-Trichlorophenol		NA	NA	NA	NA
2,4,6-Trichlorophenol		NA	NA	NA	NA
2,4-Dichlorophenol		NA	NA	NA	NA
2,4-Dimethylphenol		NA	NA	NA	NA
2,4-Dinitrophenol		NA	NA	NA	NA
2,4-Dinitrotoluene		NA	NA	NA	NA
2,6-Dichlorophenol		NA	NA	NA	NA
2,6-Dinitrotoluene		NA	NA	NA	NA
2-Acetylaminofluorene		NA	NA	NA	NA
2-Chloronaphthalene		NA	NA	NA	NA
2-Chlorophenol		NA	NA	NA	NA
2-Methylnaphthalene		NA	NA	NA	NA
2-Methylphenol		NA	NA	NA	NA
2-Naphthylamine		NA	NA	NA	NA
2-Nitroaniline		NA NA	NA	NA	NA
2-Nitrophenol 2-Picoline		NA NA	NA NA	NA NA	NA NA
3&4-Methylphenol		NA	NA	NA	NA
3,3'-Dichlorobenzidine		NA	NA	NA	NA
3,3'-Dimethylbenzidine		NA	NA	NA	NA
3-Methylcholanthrene		NA	NA	NA	NA
3-Nitroaniline		NA	NA	NA	NA
4,6-Dinitro-2-methylpheno	bl	NA	NA	NA	NA
4-Aminobiphenyl		NA	NA	NA	NA
4-Bromophenyl-phenyleth	er	NA	NA	NA	NA
4-Chloro-3-Methylphenol		NA	NA	NA	NA
4-Chloroaniline		NA	NA	NA	NA
4-Chlorobenzilate		NA	NA	NA	NA
4-Chlorophenyl-phenyleth	ier	NA	NA	NA	NA
4-Nitroaniline		NA	NA	NA	NA
4-Nitrophenol		NA	NA	NA	NA
4-Nitroquinoline-1-oxide		NA	NA	NA	NA
4-Phenylenediamine		NA	NA	NA	NA
5-Nitro-o-toluidine		NA	NA	NA	NA
7,12-Dimethylbenz(a)anth		NA	NA	NA	NA
a,a'-Dimethylphenethylam	nine	NA	NA	NA	NA
Acenaphthene		NA	NA	NA	NA
Acenaphthylene		NA	NA	NA	NA
Acetophenone		NA	NA	NA	NA
Aniline		NA	NA	NA	NA
Anthracene		NA	NA	NA	NA

Location ID:	East St. Area 2 - North	East St. Area 2 - South	Lyman Stree	et Area
Sample ID:	F-1	95-25	LSSC-16S	MW-3R
Parameter Date Collected:	10/15/08	10/16/08	10/16/08	10/16/08
Semivolatile Organics (continued)				
Aramite	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA
Benzyl Alcohol	NA NA	NA NA	NA NA	NA NA
bis(2-Chloroethoxy)methane bis(2-Chloroethyl)ether	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA
Butylbenzylphthalate	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA
Diallate	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA
Diethylphthalate	NA	NA	NA	NA
Dimethylphthalate	NA	NA	NA	NA
Di-n-Butylphthalate	NA	NA	NA	NA
Di-n-Octylphthalate	NA	NA	NA	NA
Diphenylamine	NA	NA	NA	NA
Ethyl Methanesulfonate	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA
Hexachlorobutadiene	NA NA	NA NA	NA NA	NA NA
Hexachlorocyclopentadiene Hexachloroethane	NA	NA	NA	NA
Hexachlorophene	NA	NA	NA	NA
Hexachloropropene	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA
Isodrin	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA
Isosafrole	NA	NA	NA	NA
Methapyrilene	NA	NA	NA	NA
Methyl Methanesulfonate	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA
N-Nitroso-di-n-butylamine	NA	NA	NA	NA
N-Nitroso-di-n-propylamine N-Nitrosomethylethylamine	NA NA	NA NA	NA NA	NA NA
N-Nitrosomorpholine N-Nitrosopiperidine	NA NA	NA NA	NA NA	NA NA
N-Nitrosopyrrolidine	NA	NA	NA	NA
o,o,o-Triethylphosphorothioate	NA	NA	NA	NA
o-Toluidine	NA	NA	NA	NA
p-Dimethylaminoazobenzene	NA	NA	NA	NA
Pentachlorobenzene	NA	NA	NA	NA
Pentachloroethane	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA
Phenacetin	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA
Phenol	NA	NA	NA	NA
Pronamide	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA
Safrole	NA	NA	NA	NA
Thionazin	NA	NA	NA	NA

Parameter Volatile Organics 1,1,1,2-Tetrachloroet	Sample ID: Date Collected:	MM-1	GMA1-25	CMA4.07
Volatile Organics 1,1,1,2-Tetrachloroet	Date Collected:			GMA1-27
1,1,1,2-Tetrachloroet	Date Obliceted.	10/24/08	10/17/08	10/17/08
1 1 1				
	hane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1,1-Trichloroethane	1	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1,2,2-Tetrachloroet	hane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1,2-Trichloroethane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1-Dichloroethane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1-Dichloroethene		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2,3-Trichloropropar		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dibromo-3-chloro	propane	NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
1,2-Dibromoethane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloroethane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloropropane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,4-Dioxane		NA	ND(0.10) [ND(0.10)]	ND(0.10)
2-Butanone		NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
2-Chloro-1,3-butadie		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
2-Chloroethylvinyleth	er	NA	ND(0.013) J [ND(0.013) J]	R
2-Hexanone		NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
3-Chloropropene		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
4-Methyl-2-pentanon	9	NA	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Acetone		NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Acetonitrile		NA	ND(0.020) J [ND(0.020) J]	ND(0.020) J
Acrolein		NA	ND(0.025) J [ND(0.025) J]	ND(0.025) J
Acrylonitrile		NA	ND(0.025) J [ND(0.025) J]	ND(0.025) J
Benzene		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Bromodichlorometha	ne	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Bromoform		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Bromomethane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Carbon Disulfide		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Carbon Tetrachloride		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chlorobenzene		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroethane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroform		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloromethane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
cis-1,3-Dichloroprope	ne	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Dibromochlorometha	ne	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Dibromomethane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Dichlorodifluorometha	ane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Ethyl Methacrylate		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Ethylbenzene		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Iodomethane		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Isobutanol		NA	ND(0.050) J [ND(0.050) J]	ND(0.050) J
Methacrylonitrile		NA	ND(0.010) [ND(0.010)]	ND(0.010)
Methyl Methacrylate		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Methylene Chloride		NA	0.00024 J [0.00053 J]	0.00061 J
Propionitrile		NA	ND(0.020) J [ND(0.020) J]	ND(0.020) J
Styrene		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Tetrachloroethene		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Toluene		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,2-Dichloroeth	ene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,3-Dichloropro		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,4-Dichloro-2-I		NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Trichloroethene		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Trichlorofluorometha	ne	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Vinvl Acetate	-	NA	ND(0.0025) [ND(0.0025)]	ND(0.0025)
Vinyl Chloride		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Xylenes (total)		NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Total VOCs		NA	0.00024 J [0.00053 J]	0.00061 J

Location ID:	Newell St. Area I	Newell St. Area II			
Sample ID:	MM-1	GMA1-25	GMA1-27		
Parameter Date Collected:	10/24/08	10/17/08	10/17/08		
PCBs-Filtered					
Aroclor-1016	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J		
Aroclor-1221	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J		
Aroclor-1232	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J		
Aroclor-1242	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J		
Aroclor-1248	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J		
Aroclor-1254	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J		
Aroclor-1260	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J		
Total PCBs	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J		
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
1,2,4-Trichlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
1,2-Dichlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
1,2-Diphenylhydrazine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
1,3,5-Trinitrobenzene	NA	ND(0.029) [ND(0.026)]	ND(0.026)		
1,3-Dichlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
1,3-Dinitrobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
1,4-Dichlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
1,4-Naphthoquinone	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
1-Naphthylamine	NA	ND(0.029) J [ND(0.026) J]	ND(0.026) J		
2,3,4,6-Tetrachlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2,4,5-Trichlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2,4,6-Trichlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2,4-Dichlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2,4-Dimethylphenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2,4-Dinitrophenol	NA	ND(0.029) [ND(0.026)]	ND(0.026)		
2,4-Dinitrotoluene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2,6-Dichlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2,6-Dinitrotoluene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2-Acetylaminofluorene	NA	ND(0.012) [ND(0.010)]	ND(0.010)		
2-Chloronaphthalene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2-Chlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2-Methylnaphthalene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2-Methylphenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2-Naphthylamine	NA	ND(0.029) J [ND(0.026) J]	ND(0.026) J		
2-Nitroaniline	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2-Nitrophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
2-Picoline	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
3&4-Methylphenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
3,3'-Dichlorobenzidine	NA	ND(0.012) [ND(0.010)]	ND(0.010)		
3,3'-Dimethylbenzidine	NA	ND(0.029) [ND(0.026)]	ND(0.026)		
3-Methylcholanthrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
3-Nitroaniline	NA	ND(0.029) [ND(0.026)]	ND(0.026)		
4,6-Dinitro-2-methylphenol	NA	ND(0.029) [ND(0.026)]	ND(0.026)		
4-Aminobiphenyl	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
4-Bromophenyl-phenylether	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
4-Chloro-3-Methylphenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
4-Chloroaniline	NA	ND(0.029) [ND(0.026)]	ND(0.026)		
4-Chlorobenzilate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
4-Chlorophenyl-phenylether	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
4-Nitroaniline	NA	ND(0.029) [ND(0.026)]	ND(0.026)		
4-Nitrophenol	NA	ND(0.029) [ND(0.026)]	ND(0.026)		
4-Nitroquinoline-1-oxide	NA	ND(0.029) J [ND(0.026) J]	ND(0.026) J		
4-Phenylenediamine	NA	ND(0.012) J [ND(0.010) J]	ND(0.010) J		
5-Nitro-o-toluidine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
7,12-Dimethylbenz(a)anthracene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
a,a'-Dimethylphenethylamine	NA	ND(0.029) J [ND(0.026) J]	ND(0.026) J		
Acenaphthene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
Acenaphthylene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
Acetophenone	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
Aniline	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		
Anthracene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)		

Location ID:	Newell St. Area I	Newell St. Area II	
Sample ID:	MM-1	GMA1-25	GMA1-27
Parameter Date Collected:	10/24/08	10/17/08	10/17/08
Semivolatile Organics (continued)			
Aramite	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzidine	NA	ND(0.012) J [ND(0.010) J]	ND(0.010) J
Benzo(a)anthracene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzo(a)pyrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzo(b)fluoranthene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzo(g,h,i)perylene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzo(k)fluoranthene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzyl Alcohol	NA	ND(0.012) [ND(0.010)]	ND(0.010)
bis(2-Chloroethoxy)methane	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
bis(2-Chloroethyl)ether bis(2-Chloroisopropyl)ether	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
( 1),	NA NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
bis(2-Ethylhexyl)phthalate Butylbenzylphthalate	NA	0.00099 J [ND(0.0051)] ND(0.0058) [ND(0.0051)]	ND(0.0051) ND(0.0051)
Chrysene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Diallate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Dibenzo(a,h)anthracene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Dibenzofuran	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Diethylphthalate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Dimethylphthalate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Di-n-Butylphthalate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Di-n-Octylphthalate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Diphenylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Ethyl Methanesulfonate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Fluoranthene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Fluorene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Hexachlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Hexachlorobutadiene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Hexachlorocyclopentadiene	NA	ND(0.012) J [ND(0.010) J]	ND(0.010) J
Hexachloroethane	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Hexachlorophene	NA	ND(0.0058) J [ND(0.0051) J]	ND(0.0051) J
Hexachloropropene	NA	ND(0.012) [ND(0.010)]	ND(0.010)
Indeno(1,2,3-cd)pyrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Isodrin	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Isophorone	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Isosafrole	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Methapyrilene	NA	ND(0.0058) J [ND(0.0051) J]	ND(0.0051) J
Methyl Methanesulfonate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Naphthalene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Nitrobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosodiethylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosodimethylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitroso-di-n-butylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitroso-di-n-propylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosomethylethylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosomorpholine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosopiperidine	NA NA	ND(0.0058) [ND(0.0051)] ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosopyrrolidine o,o,o-Triethylphosphorothioate	NA	ND(0.0058) [ND(0.0051)] ND(0.0058) [ND(0.0051)]	ND(0.0051) ND(0.0051)
o-Toluidine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
p-Dimethylaminoazobenzene	NA	ND(0.0058) [ND(0.0051)] ND(0.0058) [ND(0.0051)]	ND(0.0051) ND(0.0051)
Pentachlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pentachloroethane	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pentachloronitrobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pentachlorophenol	NA	ND(0.029) [ND(0.026)]	ND(0.026)
Phenacetin	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Phenanthrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Phenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pronamide	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pyrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pyridine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Safrole	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Thionazin	NA	ND(0.012) [ND(0.010)]	ND(0.010)

Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

#### Notes:

- 1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered) and semivolatiles.
- 2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30,
- 2007).
   NA Not Analyzed.
- 5. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- Only those constituents detected in one or more samples are summarized. Field duplicate sample results are presented in brackets.

#### Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)

- R Data was rejected due to a deficiency in the data generation process.

# ARCADIS

Appendix C

Historical Groundwater Data

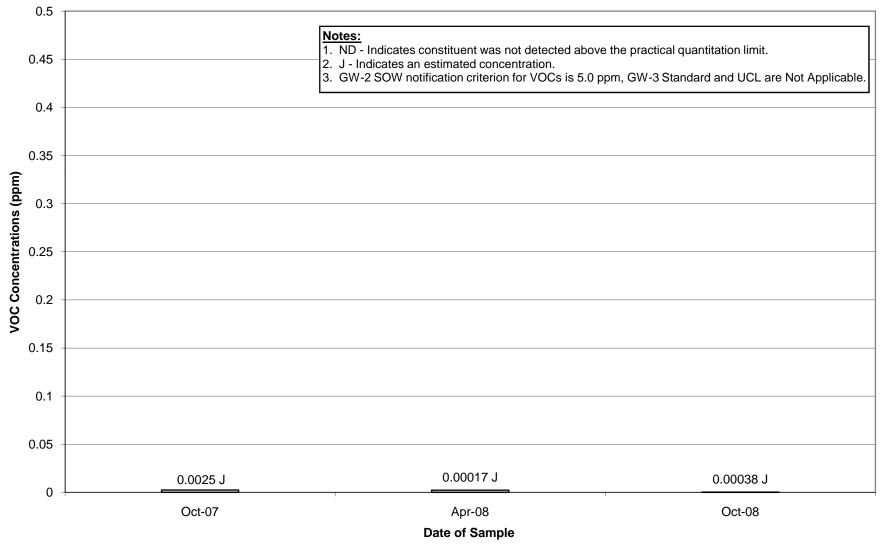
# ARCADIS

# **Historical Groundwater Data**

Total VOC Concentrations – Wells Sampled in Fall 2008

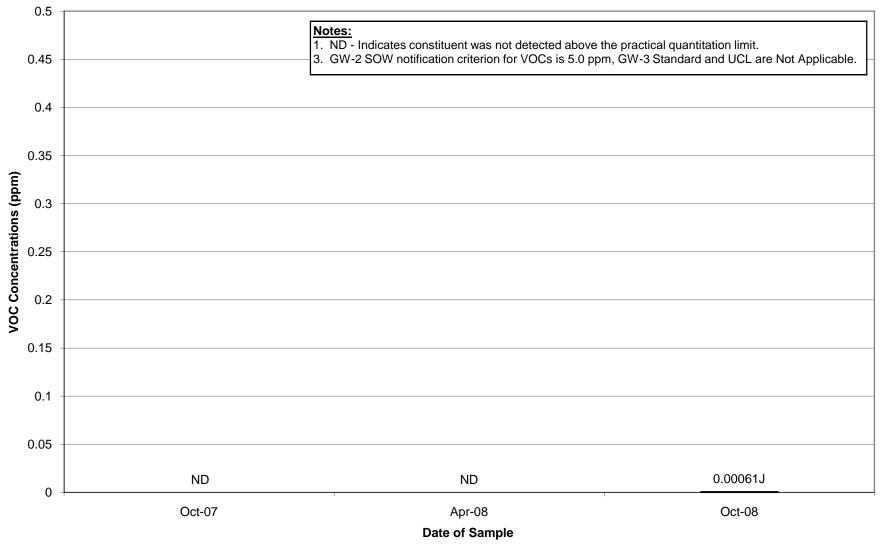
# Appendix C Well GMA1-25 Historical VOC Concentrations

Groundwater Management Area 1 General Electric Company - Pittsfield, Massachusetts



# Appendix C Well GMA1-27 Historical VOC Concentrations

Groundwater Management Area 1 General Electric Company - Pittsfield, Massachusetts



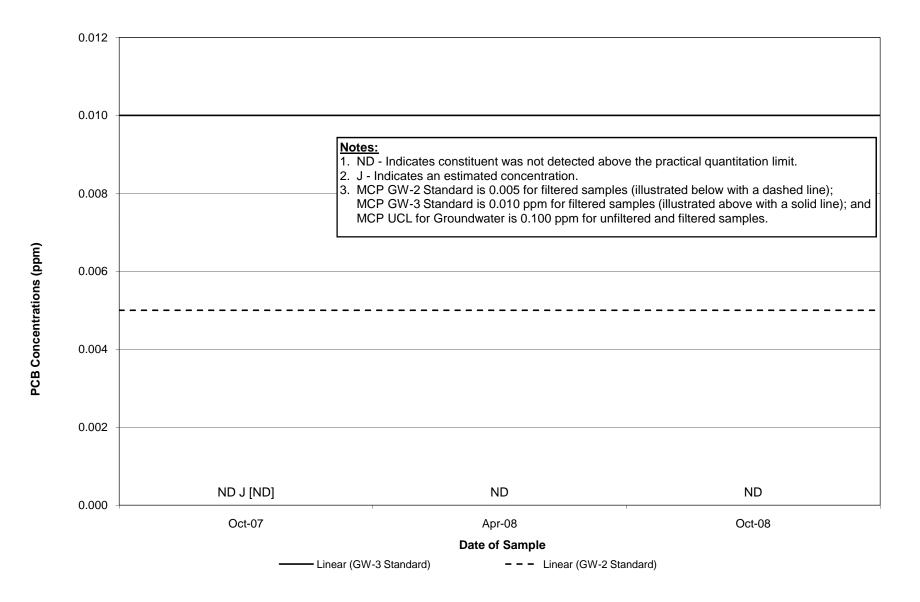
# ARCADIS

# **Historical Groundwater Data**

Total PCB Concentrations – Wells Sampled in Fall 2008

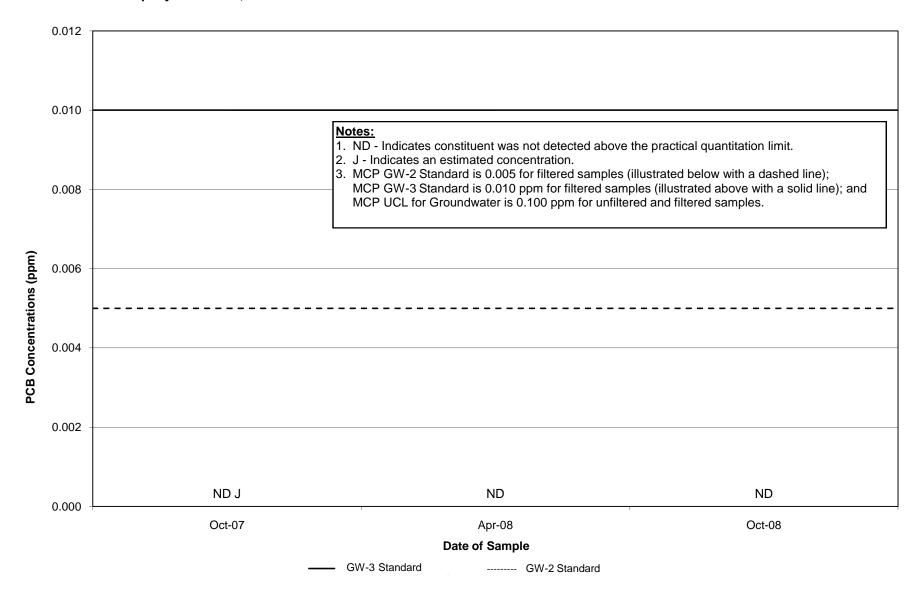
# Appendix C Well GMA1-25 Historical PCB Concentrations

Groundwater Management Area 1 General Electric Company - Pittsfield, Massachusetts



# Appendix C Well GMA1-27 Historical PCB Concentrations

## Groundwater Management Area 1 General Electric Company - Pittsfield, Massachusetts



# ARCADIS

Appendix D

Data Validation Report

### Appendix D Groundwater Sampling Data Validation Report Groundwater Management Area 1 – Fall 2008

### General Electric Company Pittsfield, Massachusetts

# 1.0 General

This attachment summarizes the data validation review performed on behalf of the General Electric Company (GE) for groundwater samples collected in October and November 2008 as part of groundwater sampling activities conducted at Groundwater Management Area 1, located at the General Electric Company/Housatonic River Site in Pittsfield, Massachusetts. The samples were analyzed for polychlorinated biphenyls (PCBs) and/or various other constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3) by SGS Environmental Services, Inc. of Wilmington, North Carolina. Data validation was performed for 19 PCB samples, five volatile organic compound (VOC) samples, and four semi-volatile organic compound (SVOC) samples.

# 2.0 Data Evaluation Procedures

This attachment outlines the applicable quality control criteria utilized during the data review process and any deviations from those criteria. The data review was conducted in accordance with the following documents:

- Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (submitted by GE on March 30, 2007 and approved by EPA on June 13, 2007);
- Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, USEPA Region I (June 13, 1988) (Modified February 1989); and
- Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, USEPA Region I (Draft, December 1996).

The data were validated to either a Tier I or Tier II level, as described below. Any deviations from the applicable quality control criteria utilized during the data review process are identified below. A tabulated summary of the Tier I/Tier II data review is presented in Table D-1. Each sample subject to evaluation is listed in Table D-1 to document that data review was performed. Samples that required data qualification are listed separately.

The following data qualifiers were used in this data evaluation:

J The compound was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound is detected at an estimated concentration less than the corresponding practical quantitation limit (PQL).

- U The compound was analyzed for, but was not detected. The sample quantitation limit is presented. Non-detect sample results are presented as ND(PQL) within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is estimated and may or may not represent the actual level of quantitation. Non-detect sample results that required qualification are presented as ND(PQL) J within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.
- R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data should not be used for any qualitative or quantitative purpose.

## 3.0 Data Validation Procedures

Section 7.5 of the FSP/QAPP states that analytical data will be validated to a Tier I level following the procedures presented in the *Region I Tiered Organic and Inorganic Data Validation Guidelines* (EPA guidelines). The Tier I review consisted of a completeness evidence audit, as outlined in the *EPA Region I CSF Completeness Evidence Audit Program* (EPA Region I, July 31, 1991), to ensure that laboratory data and documentation were present. In the event data packages were determined to be incomplete, the missing information was requested from the laboratory. Upon completion of the Tier I review, the data packages complied with the EPA Region I Tier I data completeness requirements.

The Tier II data review consisted of a review of data package summary forms for identification of quality assurance/quality control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Additionally, field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

A summary of the samples subject to Tier I and Tier II data review is presented in the following table.

		Tier I Only					
Parameter	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	Total
PCBs	0	0	0	16	2	1	19
VOCs	0	0	0	2	1	2	5
SVOCs	0	0	0	2	1	1	4
Total	0	0	0	20	4	4	28

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Summary of Samples Subjected to Tier I and Tier II Data Validation

When qualification of the sample data was required, the sample results associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in EPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented in Section 4 below.

### 4.0 Summary of QA/QC Parameter Deviations Requiring Data Qualification

This section provides a summary of the deviations from the applicable QA/QC criteria that resulted in qualification of results.

The initial calibration criterion for organic analyses requires that the average relative response factor (RRF) has a value greater than 0.05. Sample results were qualified as estimated (J) when this criterion was not achieved. The compounds that did not achieve the initial calibration criterion and the number of samples qualified are presented in the following table.

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,2-Dibromo-3-chloropropane	5	J
	1,4-Dioxane	1	J
	2-Butanone	5	J
	2-Chloroethylvinylether	4	J
	Acetone	5	J
	Acetonitrile	5	J
	Acrolein	5	J
	Acrylonitrile	5	J
	Isobutanol	5	J
	Methacrylonitrile	1	J
	Propionitrile	5	J
	trans-1,4-Dichloro-2-butene	5	J
SVOCs	Hexachlorophene	4	J

Compounds Qualified Due to Initial Calibration Deviations (RRF)

The continuing calibration criterion requires that the percent difference (%D) between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs be less than 25%. Sample data for detect and non-detect compounds with %D values that exceeded the continuing calibration criteria were qualified as estimated (J). A summary of the compounds that exceeded the continuing calibration criterion and the number of samples qualified due to those deviations are presented in the following table.

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Hexanone	4	J
	Acrolein	1	J
	Bromomethane	1	J
	Methacrylonitrile	1	J

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	1-Naphthylamine	3	J
	2-Naphthylamine	4	J
	4-Nitroquinoline-1-oxide	3	J
	4-Phenylenediamine	4	J
	a,a'-Dimethylphenethylamine	3	J
	Benzidine	3	J
	Hexachlorocyclopentadiene	3	J
	Methapyrilene	3	J

Compounds Qualified Due to Continuing Calibration of %D Values

Matrix spike/matrix spike duplicate (MS/MSD) sample analysis recovery criteria for organics require that the MS/MSD recovery must be within the laboratory-generated QC control limits specified on the MS reporting form. Sample results with MS/MSD recoveries that were less than the laboratory-generated QC control limits and have recoveries greater than 10% were qualified as estimated (J). Non-detect organic sample results that exhibited MS/MSD recoveries less than 10% were qualified as rejected (R). The compound that did not meet MS/MSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compound Qualified Due to MS/MSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	1	R

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analysis recovery criteria for organics must be within the laboratory-generated QC acceptance limits specified on the LCS/LCSD reporting form. Organic sample results associated with the LCS/LCSD that exceeded laboratory-generated QC acceptance limits were qualified as estimated (J). The compounds that did not meet LCS/LCSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Analysis	Compound	Number of Affected Samples	Qualification								
PCBs	All Aroclors	1	J								
SVOCs	Benzo(k)fluoranthene	1	J								
	Isophorone	1	J								

Compounds Qualified Due to LCS/LCSD Recovery Deviations

Surrogate compounds are analyzed with every organic sample to aid in evaluation of the sample extraction efficiency. As specified in the FSP/QAPP, at least one of the PCB surrogate compounds must have a recovery between laboratory-specified control limits. Associated sample results were qualified as estimated (J) for all compounds when surrogate recovery criteria were outside control limits and greater than 10%. A summary of the compounds affected by surrogate recovery exceedances and the number of samples qualified due to those deviations are presented in the following table.

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Analysis	Compound	Number of Affected Samples	Qualification
PCBs	All Aroclors	2	J

## 5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. The percent usability calculation included analyses evaluated under both the Tier I/II data validation reviews. The percent usability calculation also includes quality control samples (i.e., field/equipment blanks, trip blanks, and field duplicates) to aid in the evaluation of data usability. Data usability is summarized in the following table.

Data Usability									
Parameter	Percent Usability	Rejected Data							
VOCs	99.6	A total of one sample result was rejected due to MS/MSD recovery deviations.							
SVOCs	100	None							
PCBs	100	None							

The data package completeness, as determined from the Tier I data review, was used in combination with the data quality deviations identified during the Tier II data review to determine overall data quality. As specified in the FSP/QAPP, the overall precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters determined from the Tier I and Tier II data reviews were used as indicators of overall data quality. These parameters were assessed through an evaluation of the results of the field and laboratory QA/QC sample analyses to provide a measure of compliance of the analytical data with the Data Quality Objectives (DQOs) specified in the FSP/QAPP. Therefore, the following sections present summaries of the PARCC parameters assessment with regard to the DQOs specified in the FSP/QAPP.

## 5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included field duplicates, MS/MSD samples, and LCS/LCSD samples. None of the data required qualification due to field duplicate RPD deviations, MS/MSD RPD deviations, or LCS/LCSD RPD deviations.

# 5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, LCS/LCSDs, MS/MSD samples, and surrogate compound recoveries. For this analytical program, 9.9% of the data

required qualification due to instrument calibration deviations, 15.5% of the data required qualification due to LCS/LCSD recoveries, 0.11% of the data required qualification due to MS/MSD recovery deviations, and 1.8% of the data required qualification due to surrogate compound recovery deviations. None of the data required qualification due to internal standard recovery deviations.

## 5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter, which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed by collecting samples at locations specified in the EPA-approved work plans, and by following the procedures for sample collection/analyses that were described in the FSP/QAPP. Additionally, the analytical program used procedures consistent with EPA-approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical data set, none of the data required qualification due to holding time deviations.

## 5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. Specifically, all the groundwater samples collected in October and November 2008 were analyzed by EPA SW-846 method 8082 for PCBs, 8260 for VOCs, and 8270 for SVOCs.

# 5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data set ranged from 99.6% to 100% for individual analytical parameters and had an overall usability of 99.9%, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

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Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
G582-131	17A (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1221 Aroclor-1232	LCS %R LCS %R	62.8% 62.8%	70% to 130% 70% to 130%	ND(0.000081) J ND(0.000081) J	
						Aroclor-1232 Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
0.500 101	ARD (5% ))	10/10/0000		<b>-</b>		Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
G582-131	37R (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016 Aroclor-1221	LCS %R LCS %R	62.8% 62.8%	70% to 130% 70% to 130%	ND(0.000078) J ND(0.000078) J	
						Aroclor-1221 Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1260 Total PCBs	LCS %R LCS %R	62.8%	70% to 130%	ND(0.000078) J	
G582-131	95-20 (Filtered)	10/15/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8% 62.8%	70% to 130% 70% to 130%	ND(0.000078) J ND(0.000075) J	
0002-101	55 20 (Fillerou)	10/10/2000	mater		103	Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1254	LCS %R	62.8% 62.8%	70% to 130% 70% to 130%	ND(0.000075) J ND(0.000075) J	
						Aroclor-1260 Total PCBs	LCS %R LCS %R	62.8%	70% to 130%	ND(0.000075) J	
G582-131	95-25 (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
				norm	163	Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1254 Aroclor-1260	LCS %R LCS %R	62.8% 62.8%	70% to 130% 70% to 130%	ND(0.000075) J ND(0.000075) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
G582-131	ES1-10 (Filtered)	10/15/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1242	LCS %R LCS %R	62.8%	70% to 130%	ND(0.000077) J ND(0.000077) J	
						Aroclor-1248 Aroclor-1254	LCS %R LCS %R	62.8% 62.8%	70% to 130% 70% to 130%	ND(0.000077) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
G582-131	F-1 (Filtered)	10/15/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1232 Aroclor-1242	LCS %R LCS %R	62.8% 62.8%	70% to 130%	ND(0.000075) J ND(0.000075) J	
						Aroclor-1242 Aroclor-1248	LCS %R	62.8%	70% to 130% 70% to 130%	ND(0.000075) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
G582-131	GMA1-3 (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Aroclor-1221 Aroclor-1232	LCS %R LCS %R	62.8%	70% to 130%	ND(0.000080) J ND(0.000080) J	
						Aroclor-1232 Aroclor-1242	LCS %R LCS %R	62.8% 62.8%	70% to 130% 70% to 130%	ND(0.000080) J ND(0.000080) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
0.000 101	1.000 400 (E'')	10/10/0005				Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
G582-131	LSSC-16S (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016 Aroclor-1221	LCS %R LCS %R	62.8% 62.8%	70% to 130% 70% to 130%	ND(0.000077) J ND(0.000077) J	
						Aroclor-1221 Aroclor-1232	LCS %R LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1232 Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
0500 404		40/40/0000	10/	<b>T</b> 1 U	No.	Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
G582-131	MW-3R (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016 Aroclor-1221	LCS %R LCS %R	62.8% 62.8%	70% to 130% 70% to 130%	ND(0.000076) J ND(0.000076) J	
	1			1	1	Aroclor-1221 Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000076) J	

Sample Delivery Group No. PCBs (conti	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes				
G582-131	MW-3R (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000076) J					
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000076) J					
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000076) J					
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000076) J					
G582-137	GMA1-25 (Filtered)	10/17/2008	Water	Tier II	Yes	Total PCBs Aroclor-1016	LCS %R LCS %R	62.8%	70% to 130% 70% to 130%	ND(0.000076) J ND(0.000068) J					
0302-137	GiviA1-23 (Filtered)	10/17/2000	water	i iei ii	165	Aroclor-1221	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
						Aroclor-1232	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
						Aroclor-1242	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
						Aroclor-1248	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
						Aroclor-1254	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
						Aroclor-1260 Total PCBs	LCS %R LCS %R	66.5% 66.5%	70% to 130% 70% to 130%	ND(0.000068) J ND(0.000068) J					
G582-137	GMA1-27 (Filtered)	10/17/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
0002 107	chiller (Fillerod)	10/11/2000	Trator			Aroclor-1221	LCS %R	66.5%	70% to 130%	ND(0.000066) J					
						Aroclor-1232	LCS %R	66.5%	70% to 130%	ND(0.000066) J					
						Aroclor-1242	LCS %R	66.5%	70% to 130%	ND(0.000066) J					
						Aroclor-1248	LCS %R	66.5%	70% to 130%	ND(0.000066) J					
						Aroclor-1254	LCS %R	66.5%	70% to 130%	ND(0.000066) J					
						Aroclor-1260 Total PCBs	LCS %R	66.5% 66.5%	70% to 130% 70% to 130%	ND(0.000066) J ND(0.000066) J					
G582-137	GMA1-DUP-01 (Filtered)	10/17/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R LCS %R	66.5%	70% to 130%	ND(0.000066) J ND(0.000068) J	Parent sample GMA1-25 (Filtered)				
0002-107	Children of (Fillered)	10/11/2000	Water	TICI II	103	Aroclor-1221	LCS %R	66.5%	70% to 130%	ND(0.000068) J	r arent sample GMP(1-25 (Fillered)				
						Aroclor-1232	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
						Aroclor-1242	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
						Aroclor-1248	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
						Aroclor-1254	LCS %R	66.5%	70% to 130%	ND(0.000068) J					
						Aroclor-1260	LCS %R LCS %R	66.5%	70% to 130%	ND(0.000068) J					
G582-151	ES1-18 (Filtered)	10/23/2008	Water	Tier II	Yes	Total PCBs Aroclor-1016	LCS %R	66.5% 56.1%	70% to 130% 70% to 130%	ND(0.000068) J ND(0.00010) J					
0302-131	LOT-TO (Fillered)	10/20/2000	Water	i nem	Tiel II	i lei li	TIEL II	nei n	165	Aroclor-1221	LCS %R	56.1%	70% to 130%	ND(0.00010) J	
						Aroclor-1232	LCS %R	56.1%	70% to 130%	ND(0.00010) J					
						Aroclor-1242	LCS %R	56.1%	70% to 130%	ND(0.00010) J					
						Aroclor-1248	LCS %R	56.1%	70% to 130%	ND(0.00010) J					
						Aroclor-1254	LCS %R	56.1%	70% to 130%	ND(0.00010) J					
						Aroclor-1260	LCS %R	56.1%	70% to 130%	ND(0.00010) J					
G582-151	ES2-19 (Filtered)	10/23/2008	Water	Tier II	Yes	Total PCBs Aroclor-1016	LCS %R LCS %R	56.1% 56.1%	70% to 130% 70% to 130%	ND(0.00010) J ND(0.00012) J					
0302-131	LO2-19 (Fillefed)	10/23/2000	water	i iei ii	165	Aroclor-1016	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J					
						Aroclor-1221	LCS %R	56.1%	70% to 130%	ND(0.00012) J					
						Aroclor-1221	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J					
						Aroclor-1232	LCS %R	56.1%	70% to 130%	ND(0.00012) J					
						Aroclor-1232	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J					
				1		Aroclor-1242 Aroclor-1242	LCS %R Surrogate Recovery	56.1% 31.0%, 34.8%	70% to 130% 40% to 140%	ND(0.00012) J ND(0.00012) J					
						Aroclor-1242 Aroclor-1248	LCS %R	31.0%, 34.8% 56.1%	40% to 140% 70% to 130%	ND(0.00012) J ND(0.00012) J					
				1		Aroclor-1248 Aroclor-1248	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J					
				1		Aroclor-1254	LCS %R	56.1%	70% to 130%	ND(0.00012) J					
						Aroclor-1254	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J					
						Aroclor-1260	LCS %R	56.1%	70% to 130%	ND(0.00012) J					
				1		Aroclor-1260	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J					
	1					Total PCBs Total PCBs	LCS %R	56.1% 31.0%, 34.8%	70% to 130% 40% to 140%	ND(0.00012) J ND(0.00012) J					
G582-160	MM-1 (Filtered)	10/24/2008	Water	Tier II	Yes	Aroclor-1016	Surrogate Recovery LCS %R	31.0%, 34.8% 56.1%	40% to 140% 70% to 130%	ND(0.00012) J ND(0.00011) J					
0002-100		10/24/2000	Tatol		105	Aroclor-1221	LCS %R	56.1%	70% to 130%	ND(0.00011) J					
						Aroclor-1232	LCS %R	56.1%	70% to 130%	ND(0.00011) J					
				1		Aroclor-1242	LCS %R	56.1%	70% to 130%	ND(0.00011) J					
	1					Aroclor-1248	LCS %R	56.1%	70% to 130%	ND(0.00011) J					
				1		Aroclor-1254	LCS %R	56.1%	70% to 130%	ND(0.00011) J					
				1		Aroclor-1260 Total PCBs	LCS %R LCS %R	56.1% 56.1%	70% to 130% 70% to 130%	ND(0.00011) J ND(0.00011) J					
G582-174	31R (Filtered)	10/30/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	56.1%	70% to 130% 70% to 130%	ND(0.00011) J ND(0.000069) J					
0002-174	on (intered)	10/30/2000	Walci	i ici ii	105	Aroclor-1221	LCS %R	50.0%	70% to 130%	ND(0.000069) J					
						Aroclor-1232	LCS %R	50.0%	70% to 130%	ND(0.000069) J					
				1		Aroclor-1242	LCS %R	50.0%	70% to 130%	ND(0.000069) J					
			1		Aroclor-1248	LCS %R	50.0%	70% to 130%	ND(0.000069) J						

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes		
PCBs (contin		Date Collected	INIGUIA	Level	Quanneation	Compound	QA/QC Falameter	Value	Control Linits	Quanneu Result	Notes		
G582-174	31R (Filtered)	10/30/2008	Water	Tier II	Yes	Aroclor-1254	LCS %R	50.0%	70% to 130%	ND(0.000069) J			
						Aroclor-1260	LCS %R	50.0%	70% to 130%	ND(0.000069) J			
G582-185	GMA-1-RB-1 (Filtered)	11/3/2008	Water	Tier II	Vee	Total PCBs Aroclor-1016	LCS %R LCS %R	50.0% 50.0%	70% to 130% 70% to 130%	ND(0.000069) J ND(0.000066) J			
6302-103	GWA-1-RB-1 (Filleled)	11/3/2006	water	TIELI	Yes	Aroclor-1221	LCS %R	50.0%	70% to 130%	ND(0.000066) J			
						Aroclor-1232	LCS %R	50.0%	70% to 130%	ND(0.000066) J			
						Aroclor-1242	LCS %R	50.0%	70% to 130%	ND(0.000066) J			
						Aroclor-1248 Aroclor-1254	LCS %R LCS %R	50.0% 50.0%	70% to 130% 70% to 130%	ND(0.000066) J ND(0.000066) J			
						Aroclor-1254 Aroclor-1260	LCS %R	50.0%	70% to 130%	ND(0.000066) J			
						Total PCBs	LCS %R	50.0%	70% to 130%	ND(0.000066) J			
G582-272	A7-R (Filtered)	12/11/2008	Water	Tier II	Yes	Aroclor-1016	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J			
						Aroclor-1221 Aroclor-1232	Surrogate Recovery	19.7%, 39.2% 19.7%, 39.2%	40% to 140% 40% to 140%	ND(0.00065) J ND(0.00065) J			
						Aroclor-1232 Aroclor-1242	Surrogate Recovery Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J			
						Aroclor-1248	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J			
						Aroclor-1254	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J			
						Aroclor-1260 Total PCBs	Surrogate Recovery	19.7%, 39.2% 19.7%, 39.2%	40% to 140% 40% to 140%	ND(0.00065) J ND(0.00065) J			
G582-272	GMA1-DUP-2 (Filtered)	12/11/2008	Water	Tier II	No	Total PCBs	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J	Parent Sample A7-R		
VOCs	OWN DUP 2 (Fillered)	12/11/2000	Walci		110	1			I	1	a drant dampie Ar in		
G582-137	GMA1-25	10/17/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J			
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J			
					1	2-Chloroethylvinylether	ICAL RRF CCAL %D	0.013 33.7%	>0.05 <25%	ND(0.013) J			
						2-Hexanone Acetone	ICAL %D	0.028	>0.05	ND(0.0050) J ND(0.0050) J			
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J			
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J			
						Acrylonitrile Isobutanol	ICAL RRF ICAL RRF	0.027	>0.05	ND(0.025) J			
						Propionitrile	ICAL RRF	0.004	>0.05	ND(0.050) J ND(0.020) J			
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J			
G582-137	GMA1-27	10/17/2008	Water	Water	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J			
						2-Chloroethylvinylether 2-Hexanone	MS/MSD %R CCAL %D	0.0%, 0.0% 33.7%	16.7% to 200% <25%	R ND(0.0050) J			
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J			
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J			
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J			
						Acrylonitrile	ICAL RRF ICAL RRF	0.027	>0.05	ND(0.025) J ND(0.050) J			
						Propionitrile	ICAL RRF	0.004	>0.05	ND(0.050) J			
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J			
G582-137	GMA1-DUP-01	10/17/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	Parent sample GMA1-25		
						2-Butanone 2-Chloroethylvinylether	ICAL RRF ICAL RRF	0.038	>0.05	ND(0.0050) J ND(0.013) J			
						2-Hexanone	CCAL %D	33.7%	<25%	ND(0.0050) J			
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J			
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J			
						Acrolein Acrylonitrile	ICAL RRF ICAL RRF	0.014	>0.05	ND(0.025) J ND(0.025) J			
						Isobutanol	ICAL RRF	0.027	>0.05	ND(0.025) J ND(0.050) J			
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J			
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J			
G582-137	Trip Blank	10/17/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF ICAL RRF	0.016	>0.05	ND(0.0050) J			
						2-Butanone 2-Chloroethylvinylether	ICAL RRF	0.038	>0.05	ND(0.0050) J ND(0.013) J			
						2-Hexanone	CCAL %D	33.7%	<25%	ND(0.0050) J			
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J			
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J			
						Acrolein Acrylonitrile	ICAL RRF ICAL RRF	0.014	>0.05	ND(0.025) J ND(0.025) J			
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.023) J			
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J			
0.000	0144 4 85 4				-	trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J			
G582-185	GMA-1-RB-1	11/3/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(0.0050) J			

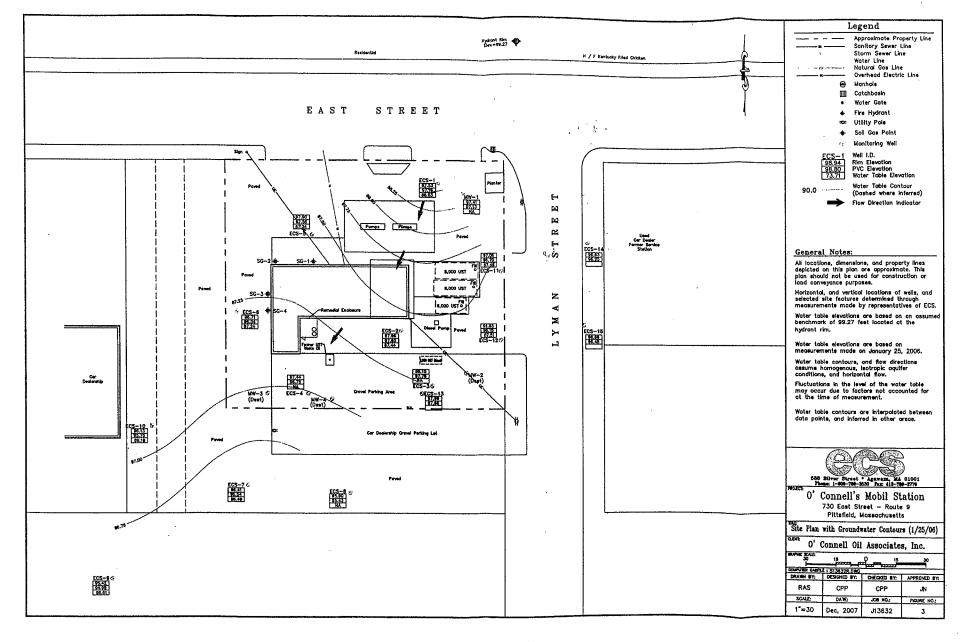
Sample											
Delivery	Committe ID	Data Callestad	Matrix	Validation Level	Qualification	0		Value	Construct L limiter	Qualified Result	Netes
Group No. VOCs (conti	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	value	Control Limits	Qualified Result	Notes
3582-185	GMA-1-RB-1	11/3/2008	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
3002-100	GWA-T-RD-T	11/3/2008	water	ner n	res	2-Butanone	ICAL RRF	0.001	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.032	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.023	>0.05	ND(0.025) J	
						Acrolein	CCAL %D	34.8%	<25%	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	40.0%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Methacrylonitrile	CCAL %D	30.0%	<25%	ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.028	>0.05	ND(0.0050) J	
VOCs				1						=(	
582-137	GMA1-25	10/17/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	56.9%	<25%	ND(0.029) J	
002 101	01111120	10/11/2000	Wator		100	2-Naphthylamine	CCAL %D	63.5%	<25%	ND(0.029) J	
						4-Nitroquinoline-1-oxide	CCAL %D	32.6%	<25%	ND(0.029) J	
						4-Phenylenediamine	CCAL %D	55.0%	<25%	ND(0.012) J	
						a.a'-Dimethylphenethylamine	CCAL %D	33.1%	<25%	ND(0.029) J	
						Benzidine	CCAL %D	26.0%	<25%	ND(0.012) J	
						Hexachlorocyclopentadiene	CCAL %D	40.0%	<25%	ND(0.012) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0058) J	
						Methapyrilene	CCAL %D	28.6%	<25%	ND(0.0058) J	
582-137	GMA1-27	10/17/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	56.9%	<25%	ND(0.026) J	
						2-Naphthylamine	CCAL %D	63.5%	<25%	ND(0.026) J	
						4-Nitroquinoline-1-oxide	CCAL %D	32.6%	<25%	ND(0.026) J	
						4-Phenylenediamine	CCAL %D	55.0%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	33.1%	<25%	ND(0.026) J	
						Benzidine	CCAL %D	26.0%	<25%	ND(0.010) J	
						Hexachlorocyclopentadiene	CCAL %D	40.0%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0051) J	
						Methapyrilene	CCAL %D	28.6%	<25%	ND(0.0051) J	
582-137	GMA1-DUP-01	10/17/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	56.9%	<25%	ND(0.026) J	Parent sample GMA1-25
						2-Naphthylamine	CCAL %D	63.5%	<25%	ND(0.026) J	
						4-Nitroquinoline-1-oxide	CCAL %D	32.6%	<25%	ND(0.026) J	
						4-Phenylenediamine	CCAL %D	55.0%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	33.1%	<25%	ND(0.026) J	
						Benzidine	CCAL %D	26.0%	<25%	ND(0.010) J	
						Hexachlorocyclopentadiene	CCAL %D	40.0%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0051) J	
						Methapyrilene	CCAL %D	28.6%	<25%	ND(0.0051) J	
582-185	GMA-1-RB-1	11/3/2008	Water	Tier II	Yes	2-Naphthylamine	CCAL %D	27.5%	<25%	ND(0.025) J	
						4-Phenylenediamine	CCAL %D	33.0%	<25%	ND(0.010) J	
						Benzo(k)fluoranthene	LCS %R	73.3%	74.3% to 111%	ND(0.0051) J	
						Hexachlorophene	ICAL RRF	0.027	>0.05	ND(0.0051) J	
						Isophorone	LCS %R	70.8%	74.2% to 106%	ND(0.0051) J	

# ARCADIS

# Appendix E

Monitoring Results for Adjacent MCP Disposal Site

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730	Connell Mol D East Stre d, Massact	et						Sept	Öxygen	ible 1 (2 of 4) Sparge Moni 2006* to Sept	toring	2008		
				etae 4.		parge Legs	a statement of the second second			<u>\$-5</u>		Tank 1	Jank 2	
Date	Flow	S-1 Pressure (psi)	Flow	S-2 Pressure (psl)	Ficw (SCFH)	3-3 Pressure (psl)	Flow (SCFH)	S-4 Pressure (psi)		Pressure (psl)	Total Flow SCFH	psi	psi	Comments
5/27/08	OFF	OFF	3	6	OFF	OFF	3	6	1.5	3	7.5	185	230	System restarted due to slight rebound (D).
6/4/08	OFF	OFF	1.5	7	OFF	OFF	10	5	0.5	4	12	135	135	
6/17/08	108 OFF OFF		1.5	7	OFF	OFF	3	5	3	5	7.5	125	125	
7/9/08	OFF	OFF	3	9	OFF	OFF	3	9	1.5	4	7.5	210	222	Tanks changed Departure readings (D)
7/14/08	OFF	OFF	3	7	OFF	OFF	3.25	5	1.5	4	7.75	210	200	
7/30/08	OFF	OFF			OFF	3	5	3	5	7.5	200	180	Tanks changed Departure readings (D)	
8/12/08	OFF	OFF	NR	NR	OFF	OFF	NR	NR	NR	NR	0	0	0	Tanks empty on arrival.
8/20/08	OFF	OFF	3	6	OFF	OFF	3	5	1.5	7	7.5	235	230	converted units on regulator in Kg/cm2 to PSI
8/26/08	OFF	OFF	2.25	7	OFF	OFF	2.5	4.5	1.5	4	6.25	210	190	Tanks changed Departure readings (D)
9/9/08	OFF	OFF	3	7	OFF	OFF	3	9	1.5	4	7.5	245	220	
All readings SCFH = cub OFF = Inteni	were record ic feet per h tionally not a	eg is 2-inch di led upon arriv nour; psi = pc available - Ox n activated Se	val unless o ounds per s kygen sparg	quare inch je leg not in i		R = No read	ling taken. E	:= Empty. D :	= Delivery.				<u>44.5.55</u>	

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730	onnell Mol East Stre I, Massach	et							Oxygen	ible 1 (1 of 4 Sparge Mon 2006* to Sept	itoring	2008	r	
					Oxygen S	parge Legs	1					Tank 1	Tank 2	
	A. (6)	S-1	A	5-2 <i>400</i>	A	3-3-000 k	A	S-4	A	S-5	Total	YER HER	3883892-	
Date	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psl)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psl)	Flow SCFH	psi	.psi	Comments
9/15/06	2.0	2.0	4.0	1.5	1.5	1.5	1.75	1.0	1.5	1.0	10.8	170	160	System start-up
9/15/06	2.0	3.0	1.5	5.0	1.5	2.0	1.5	2.0	2.0	2.0	8.0	140	125	oyoten oldit op
10/10/06	1.5	3.0	1.5	5.0	1.5	2.0	1.5	2.0	1.5	2.0	7.5	210	190	Departure readings Tanks E on 10/6/06 (D)
10/23/06	1.25	4.0	1.5	5.0	1.5	3.5	1.5	3.5	2.0	3.0	7.8	150	140	
11/7/06	1.5	4.0	1.5	5.0	1.5	2.5	1.5	2.5	1.5	2.5	7.5	190	205	Departure readings Tanks E on arrival (D)
11/20/06	1.5	4.0	1.0	6.0	1.5	3.0	1.5	3.0	1.5	3.0	7.0	158	158	
12/4/06	1.5	4.0	1.5	6.0	1.5	3.0	1.5	3.0	1.5	2.5	7.5	220	235	Departure readings Tanks E on arrival (D)
12/18/06	1.5	4.0	1.0	6.0	1.0	3.0	1.5	2.5	1.0	3.0	6.0	180	205	
1/2/07	1.5	4.0	1.5	6.0	1.5	3.5	1.5	2.5	1.5	3.0	7.5	224	221	Departure readings Tanks E on arrival (D)
1/15/07	1.5	4.0	1.0	6.0	1.0	3.0	1.3	2.5	1.0	2.5	5.8	110	100	
1/29/07	1.5	4.0	1.5	3.0	1.5	4.0	1.5	4.0	1.5	2.5	7.5	245	240	Departure readings Tanks E on arrival (D)
2/12/07	1.5	4.0	1.0	5.5	1.0	3.0	1.5	3.0	1.5	2.5	6.5	141	141	
2/26/07	1.5	4	1.5	6	1.5	2.5	1.5	3	1.5	2	7.5	121	240	Departure readings Tanks E on arrival (D)
3/12/07	1.5	4	1	6	1	2.5	1.5	3	1	2.5	6	81	90	
3/26/07	1.5	5	1.5	6	1.5	4	1.5	4	1.5	3	7.5	245	230	Departure readings Tanks E on arrival (D)
4/10/07	1.25	5	1	6.5	1.25	4	1.25	4	1.5	4	5.75	160 231	140 91	Departure readings Tanks E on arrival (D)
4/25/07	1.5	6	1.5	5	1.5	5	1.5	5	1.5	4	8.25	91	110	Departure readings Talks E on arrival (D)
5/7/07	1.5	5	1.25	5	2.25	5 5	2	5 4.5	1.25	4	7.5	235	225	Departure readings Tanks E on arrival (D)
5/24/07	1.5	5	1.5	6.5	1.5	4.5	1.5	4.5	2	3	8.5	130	120	Departore readings Tarks E diramitar (D)
6/4/07	1.5	5 5	1.5 1.5	6.5 6	1.5	4.5	1.5	4	1.5	3	7.5	172	230	Departure readings Tanks E on arrival (D)
6/18/07	1.5			6	1.5	4.5	1.5	4	1	3	6.5	210	200	Cepartore readings rains 2 or critical (2)
7/3/07	1.5 OFF	5 OFF	4	6	4	4.5	4	4	4	3	16	192	221	Departure readings Tanks E on arrival (D)
7/16/07	OFF	OFF	3.5	6	4	5	4	4	3.5	3	15	85	92	
8/1/07 8/13/07	OFF	OFF	3.5	6	OFF	OFF	4	4	1.5	3	9.5	200	270	Departure readings Tanks E on arrival (D)
8/27/07	OFF	OFF	0.5	2.5	OFF	OFF		0	0	0	0.5	0	25	Tanks E on arrival and departure.
8/31/07	OFF	OFF	3	6	OFF	OFF	3	4	1.5	3	7.5	NR	NR	Departure readings Tanks E on arrival (D)
9/10/07	OFF	OFF	3	6,	OFF	OFF	3	4	1.5	4	7.5	100	160	Departure readings
9/25/07	OFF	OFF	3	5	OFF	OFF	3	4	1.5	4	7.5	0	30	Departure readings
10/9/07	OFF	OFF	3	6	OFF	OFF	3	4	1	2	7	112	132	
10/23/07	OFF	OFF	4	6	OFF	OFF	4	6	1.5	4	9.5	NR	NR	Departure readings (D)
11/5/07	OFF	OFF	2	6	OFF	OFF	2.5	4	1	2	5.5	140	173	
11/19/07	OFF	OFF	3	6	OFF	OFF	3	7	1.5	2	7.5	200	186	Departure readings (D)
12/3/07	OFF	OFF	1	6	OFF	OFF	1.5	4	0.5	3	3	15	29	
12/17/07	OFF	OFF	1	6	OFF	OFF	0.5	2	0.1	2	1.6	10	30	Tanks changed prior to departure (D)
1/2/08	OFF	OFF	2	6	OFF	OFF	1.5	3	1	3	4.5	140	132	
1/14/08	OFF	OFF	3	6	OFF	OFF	3	5	1.5	4	7.5	145	178	Tanks changed Departure readings (D)
1/29/08	OFF	OFF	3	6	OFF	OFF	3	4	1	2	7	95 ND	75	System shut down to monitor rebound
2/11/08	OFF	OFF	NR	NR	OFF	OFF	NR	NR		NR	0	NR	NR	Deverte and now to monitor reported

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<sup>1</sup> Each Oxygen sparge leg is 2-inch diameter.
 All readings were recorded upon arrival unless otherwise noted.
 SCFH = cubic feet per hour; psl = pounds per square inch
 OFF = Intentionally not available - Oxygen sparge leg not in operation. NR = No reading taken. E = Empty, D = Delivery.
 \*Oxygen sparge system activated September 11, 2006.

730	onnell Mot ) East Stree d, Massach	ət j						Septerr	Oxygen S	e 1 (3 of 4) parge Monito 16* to Septer	oring mber 9, 200	8		
	Here and the second			XXII ANNA	Oxygen Sp	arge Legs!						Tank 1	Tank 2	
						5-8	A	S-9.	A	i-10	Total Flow	1.000	2529255	<u> </u>
Date	Flow	Pressure	Flow	Pressure	Flow	Pressure (psi)	Flow (SCFH)	Pressure (psl)	Flow (SCFH)	Pressure (psl)	SCFH	psi	psi	Comments
	(SCFH)	(psi)	(SCFH)	(psi)	(SCFH)		1901.01	(Part)			<i>9)::}/3</i> 892	1899-1996	168008900	
9/11/06	1.0	0.5	1.5	1.5	1.0	1.5	2.0	1.5	1.0	1.5	6.5	170	160	System start-up
9/21/06	1.8	2.0	1.5	2.5	1.5	1.0	1.3	2.0	1.5	2.0	7.5	140 210	125 190	Departure readings Tanks E on 10/6/06 (D)
10/10/06	1.5	2.0	1.5	3.0	1.5	1.5	1.5	2.5	1.5	3.0	7.5	150	190	Departure readings Tanks 2 on Torono (2)
10/23/06	2.0	3.5	1.5	4.0	1.5	3.0	1.5	4.0	1.5	4.0 3.0	8.0	190	205	Departure readings Tanks E on arrival (D)
11/7/06	1.5	3.5	1.5	4.0	1.5	2.0	1.5	3.5	1.5	4.5	7.0	158	158	Dopartaro
11/20/06	1.5	2.5	1.5	5.0	1.5	2.5	1.0	5.0	1.5 1.5	4.0	7.5	220	235	Departure readings Tanks E on arrival (D)
12/4/06	1.5	4.0	1.5	4.5	1.5	2.0	1.5	5.0 4.5	0.5	4.0	3.3	180	205	
12/18/06	0.75	4.0	0.5	4.0	1	2.0	0.5	5.0	1.5	5.0	7.5	224	221	Departure readings Tanks E on arrival (D)
1/2/07	1.5	3.0	1.5	4.0	1.5	2.0 2.0	1.0	5.0	1.5	5.0	6.5	110	100	
1/15/07	1.5	3.0	1.5	3.0 5.0	1.5	3.0	1.5	5.0	1.5	5.0	7.5	245	240	Departure readings Tanks E on arrival (D)
1/29/07	1.5	4.0	1.5	5.0	1.5	3.0	1.0	5.0	1.5	5.0	5.5	141	141	
2/12/07	1.0	4.0	1.5	4	1.5	3	1.5	5	1.5	5	7.5	121	240	Departure readings Tanks E on arrival (D)
2/26/07	1.5	4	1.5	4	1.25	2	0.75	5	1	5	5.5	81	90	
3/12/07	1.5	5	1.5	5	1.5	4	1.5	5	1.5	6	7.5	245	230	Departure readings Tanks E on arrival (D)
3/26/07	1.5	4	1.5	5	1.25	2	1	5	1	5.5	5.75	160	140	
4/10/07		5	1.5	6	1.5	5	1.5	6.5	1.5	10	7.5	231	91	Departure readings Tanks E on arrival (D)
4/25/07	1.5 1.5	5	2	6	2	4.5	2	6	1,5	6.5	9	91	110	Turks Frances (D)
5/7/07 5/24/07	1.5	5	1.5	5.25	1.5	4	1.5	6	1.5	7	7.5	235	225	Departure readings Tanks E on arrival (D)
6/4/07	1.5	5	1.5	5	1.25	4	1	5.5	1.5	6	6.75	130	120	Departure readings Tanks E on arrival (D)
6/18/07	1.5	5	1.5	5	1.5	4	1.5	5	1.5	7	7.5	172	230	Departure readings Tanks & Ortanital (07
7/3/07	1 1	4.5	1.5	5	1.5	4	1	5.5	1.75	6	6.75	210	200	Departure readings Tanks E on arrival (D)
7/16/07	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	4	7	4	192 85	92	Departule readings raines C on circuit (c)
8/1/07	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	3.75	7	3.75	200	270	Departure readings Tanks E on arrival (D)
8/13/07	4	4	1.5	3	OFF	OFF	OFF	OFF	4	9	9.5	200	25	Tanks E on arrival and Departure.
8/27/07	0	0	0	0	OFF	OFF	OFF	OFF	0	0 4	7.5	NR	- NR	Departure readings Tanks E on arrival (D)
8/31/07	3	4	1.5	4	OFF	OFF	OFF	OFF	3	8	5.5	100	160	Departure readings
9/10/07	3	5	1.5	5	OFF	OFF	OFF OFF	OFF	0	10	4.5	95	240	Departure readings
9/25/07	3	4	1.5	4	OFF	OFF	OFF	OFF		8	3.5	112	132	
10/9/07	2.5	4	1	4	OFF	OFF	OFF	OFF	3	$\frac{1}{1}$	7.5	NR	NR	Departure readings (D)
10/23/07	3	2	1.5	4	OFF OFF	OFF	OFF	OFF	0.1	10	4.1	140	173	
11/5/07	3	4	1	5	OFF	OFF	OFF	OFF	0.1	15	4.6	200	186	Departure readings (D)
11/19/07	3	5	1.5	3	OFF	OFF	OFF	OFF	0.3	5	1.8	15	29	
12/3/07	1	4	0.5	4	OFF	OFF	OFF	OFF	0.5	4	1.6	240	225	Tank readings on departure (D)
12/17/07	1	4	1.5	5	OFF	OFF	OFF	OFF	0.2	10	3.7	140	132	
1/2/08	2	5	1.5	4	OFF	OFF	OFF	OFF	1	10	5.5	145	178	Departure readings (D)
1/14/08	3	4	1.5	4	OFF	OFF	OFF	OFF	0.5	10	3.5	95	75	a constant down to monitor rehound
1/29/08	2	4 NR	NR	- NR	OFF	OFF	OFF	ÖFF	NR	NR	OFF		NR	System shut down to monitor rebound
2/11/08 NOTES:	NR					water and the second								

NOTES:

<sup>1</sup> Each Oxygen sparge leg is 2-inch diameter. All readings were recorded upon arrival unless otherwise noted. SCFH = cubic feet per hour; psi = pounds per square inch OFF = intentionally not available - Oxygen sparge leg not in operation. NR = No reading taken. E = Empty. D = Delivery. \*Oxygen sparge system activated September 11, 2006.

73	Connell Moi 0 East Stre id, Massach	et						Septer	Oxygen S	ile 1 (4 of 4) parge Monit 06* to Septe		8		
Date	Fiow	S-6 Pressure	A	S+7 Pressure		parge Legs <sup>1</sup> S-8	Flow	S-9 Pressure	A: Flow	S-10	Total Flow SCFH	Tank 1	Tank 2	Comments
	(SCFH)	(psi)	(SCFH)	(psi)	(SCFH)	Pressure (psi)	(SCFH)	(psi)	(SCFH)	Pressure (psi		psi	psi	
5/27/08	NR	NR	NR	NR	3	4	1.5	6	1	3	5.5	185	230	System restarted due to slight rebound (D).
6/4/08	3	7	1.5	6.5	1.5	4	OFF	OFF	OFF	OFF	6.0	135	135	
6/17/08	3	6	1.5	6	1.5	4	OFF	OFF	OFF	OFF	6.0	125	125	
7/9/08	1.5	22	1.5	12	OFF	OFF	3	5	OFF	OFF	6.0	210	222	Tanks changed Departure readings (D)
7/14/08	2.5	5	2	6	OFF	OFF	2	6.5	OFF	OFF	6.5	210	200	
7/30/08	3	5	1.5	6	1.5	4	OFF	OFF	OFF	OFF	6.0	200	180	Tanks changed Departure readings (D)
8/12/08	NR	NR	NR	NR	NR	NR	OFF	OFF	OFF	ÖFF	NA	NR	NR	Tanks empty on arrival.
8/20/08	3	5	1.5	6	OFF	OFF	OFF	OFF	3	10	7.5	235	230	converted units on regulator in Kg/cm2 to PSI
8/26/08	2	4.5	1.75	6	OFF	OFF	OFF	OFF	6.5	12	10.3	210	190	
9/9/08	3	9	1.5	9	OFF	OFF	ÓFF	OFF	3	10	7.5	245	220	Tanks changed Departure readings (D)
						,								
											<u></u>	<u> </u>		
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	1				}				]			JL		
NOTES:	<u>¢brczec</u>									-				
<sup>1</sup> Each Oxyge	en sparge le	ig is 2-inch d	iameter.											
All readings				therwise note	ed.									
SCFH = cubi	ic feet per h	our: psi=po	ounds per so	uare inch										
OFF = intent	ionally not a	vailable - O	voen sparo	e leg not in o	peration. N	R = No readin	ig taken. E	= Empty. D ≍	Delivery.					
Oxvgen spa	arge system	activated Se	ptember 11	, 2006.	•		-	· ·						

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		I/Mobil Statio st Street assachusetts			Gr	oundwater Geo	Table 2 ochemical I	Monitoring Da	nta	
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SV)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-1*	11/8/99	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.19	12/19/02	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.02	9/8/05	11.78	85.24	5.06	750	4.91	549	4.48	26.2	0.015
01.02	1/25/06	8.49	88.53	7.31	108	2.71	68.0	2.16	23.4	3.90
	4/11/06	11.38	85.64	7.04	926	4.00	10.0	4.45	27.6	<0.01
	7/20/06	11.72	85.30	4.78	814	2.98	590	3.85	27.5	<0.01
	10/10/06	12.21	84.81	NA	NA	NA	NA	NS	NS	NS
	1/25/07	11.34	85.68	7.65	620	4.87	33.0	3.70	25.9	<0.01
	2/26/07	11.29	85.73	7.82	NM	2.67	182.6	NS	NS	NS
	4/24/07	9.89	87.13	NA	NA	NA	NA	NS	NS	NS
	10/4/07	12.74	84.28	7.45	743	4.49	88	3.81	27.3	<0.03
	3/11/08	9.82	87.20	7.37	708	4.06	160	3.35	25.9	< 0.03
	5/1/08	11.5	85.52	7.56	822	5.37	33	3.79	27.8	<0.03

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts. NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured. 97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. Bold date denotes a groundwater sampling event. \* indicates these wells are sampled for secondary MNA parameters. \*\* Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

		l/Mobil Stationst Street St Street assachusetts			Gr	oundwater Geo	Table 2 ochemical N	Ionitoring Da	ata	
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Irc (mg/L)
ECS-2**	11/8/99	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.76	12/19/02	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.60	9/8/05	12.44	85.16	5.94	975	0.48	-9.5	NS	NS	NS
	11/1/05	10.65	86.95	6.89	1410	0.87	-65.9	NS	NS	NS
	1/25/06	10.16	87.44	6.84	781	1.52	-93.0	NS NS	NS NS	NS NS
	4/10/06	12.09	85.51	6.70	1,118	0.62 0.29	10.0 572	NS	NS NS	NS
	7/20/06	12.42 13.44	85.18 84.16	3.40 6.99	1,601 NM	3.88	-36.8	NS	NS	NS
	9/15/06 9/21/06	13.44	84.60	6.97	NM	11.68	237	NS	NS	NS
	9/21/06 10/6/06	12.84	84.76	6.97	NM	2.27	60.3	NS	NS	NS
	10/10/06	12.92	84.68	NM	805	0.63	28.0	NS	NS	NS
	10/23/06	12.25	85.35	6.28	NM	0.80	NM	NS	NS	NS
	11/7/06	12.21	85.39	6.67	NM	8.83	-60.8	NS	NS	NS
	11/20/06	11.58	86.02	7.12	NM	8.94	161.7	NS	NS	NS
	12/4/06	12.06	85.54	7.19	NM	9.96	228.8	NS	NS	NS
	12/18/06	12.54	85.06	6.20	NM	9.40	10.9	NS	NS	NS
:	1/2/07	12.44	85.16	7.34	NM	8.68	-122.3	NS	NS	NS
	1/15/07	11.94	85.66	7.41	NM	8.76	-133.6	NS	NS	NS
	1/25/07	12.06	85.54	7.10	838	1.84	6.0	NS	NS	NS
	1/29/07	12.21	85.39	7.07	NM	12.24	-98.9	NS	NS	, NS
	2/12/07	12,74	84.86	7.34	NM	11.84	-6.2	NS NS	NS NS	NS NS
	2/26/07	12.01	85.59 84.68	7.28 6.68	NM NM	6.63 14.60	252.3 32.2	NS	NS	NS
	3/12/07	12.92 11.91	84.68 85.69	6.67	NM	14.80	-66.9	NS	NS S	NS
	3/26/07 4/10/07	11.91	86.34	7.09	NM	5.75	-00.5	NS	NS	NS
	4/10/07	10.39	87.21	4.94	1015	0.60	-27.6	NS	NS	NS
	5/7/07	11.27	86.33	5.66	NM	11.98	32.9	NS	NS	NS
	5/24/07	11.02	86.58	5.82	NM	10.45	45.7	NS	NS	NS
	6/4/07	12.13	85.47	5.52	NM	*24.65	-8.6	NS	NS	NS
	6/18/07	12.38	85.22	6.48	NM	15.23	-67.2	NS	NS	NS
	7/3/07	- 12.52	85.08	7.60	NM	15.09	37.0	NS	NS	NS
	7/16/07	12.81	84.79	7.25	NM	15.37	58.0	NS	NS	NS
	8/1/07	12.95	84.65	6.61	NM	14.28	-57.4	NS	NS	NS
	8/13/07	13.01	84.59	5.22	NM	15.20	-265.0	NS	NS	NS
	8/27/07	13.23	84.37	6.48	NM	19.17	-92.2	NS	NS	NS
	9/10/07	13.32	84.28	7.72	NM	12.07	-61.6	NS	NS	NS
	9/25/07	13.39	84.21	7.69	NM	7.23	-73.5	NS	NS	NS
	10/4/07	13.50	84.10	6.55	1436	1.34	-73.0	NS	NS	NS NS
	10/9/07	13.54	84.06	6.07	NM	1.97 5.91	-308.7 -51.9	NS NS	NS NS	NS
	10/22/07 11/5/07	13.29 13.13	84.31 84.47	6.81 7.41	NM NM	9.97	-51.9 -24.2	NS	NS	NS
	11/5/07	13.13	84.76	6.71	NM	4.31	-24.2	NS	NS	NS
	12/3/07	13.83	83.77	7.06	NM	9.75	-199.7	NS	NS	NS
	12/17/07	12.94	84.66	7.06	NM	8.15	-111.5	NS	NS	NS
	1/2/08	12,42	85.18	6.46	NM	6.47	-139.1	NS	NS	NS
	1/14/08	12.03	85.57	6.41	NM	7.01	-130.4	NS	NS	NS
	1/29/08	12.41	85.19	6.36	NM	9.21	61.5	NS	NS	NS
	2/11/08	12.23	85.37	NM	NM	NM	NM	NS	NS	NS
	3/7/08	11.06	86.54	6.36	227	0.60	129.6	NS	NS	NS
	3/11/08	10.38	87.22	6.47	245	4.21	61	NS	NS	NS
	5/1/08	11.13	86.47	6.29	194	0.74	38	NS	NS	NS
	5/27/08	10.95	86.65	NM	NM	NM	NM	NS	NS	NS
	6/4/08	12.28	85.32	5.21	NM	11.40	44.4	NS	NS	NS
	6/17/08	12.08	85.52	6.27	NM	4.56	143.6	NS	NS	NS
	7/1/08	12.02	85.58	6.59	NM	8.22 NIM	60.3	NS	NS	NS NS
	7/9/08	NM 12.43	85.58	NM 6.60	NM NM	NM 0.88	NM -82.9	NS NS	NS NS	NS
	7/14/08	12.43	85.17 85.98	6.60 6.54	NM	9.87	-82.9 61.7	NS	NS	NS
	7/30/08 8/12/08	11.62 12.05	85.98	6.39	NM	1.80	5.4	NS	NS	NS
	8/12/08 8/20/08	12.05	85.92	NM	NM	NM	NM	NS	NS	NS
	8/26/08	12.48	85.12	6.43	NM	1.74	-18	NS	NS	NS
	9/9/08	12.40	86.04	6.25	NM	1.42	23.8	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08 It = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. Bold date denotes a groundwater sampling event. \* indicates these wells are sampled for secondary MNA parameters. \*\* Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

		/Mobil Station st Street assachusetts			Gr	oundwater Geo	Table 2 ochemical M	onitoring Da	ta	
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved In (mg/L)
ECS-3*(~)	11/8/99	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.95	12/19/02	NA	NA	NA	NA	NA	NA	NS	NS	NS FR O
97.76	9/8/05	12.65	85.11	5.64	1,418	0.87	-69.9	<1.0 NS	<10.0 NS	53.9 NS
	11/1/05	10.87	86.89	6.23	694 · NM	1.52 NM	-0.4 NM	NS	NS	NS
	1/25/06	NG	NA 85.42	NM 6.69	2,070	0.36	-40.0	<0.1	<1.0	10.3
	4/11/06 7/20/06	12.34 12.56	85.20	3.10	908	0.32	610	<0.5	27.5	14.4
	9/15/06	13.61	84.15	6.89	NM	5.24	-57.3	NS	NS	NS
	9/21/06	13.24	84.52	7.19	NM	10.88	255	NS	NS	NS
	10/6/06	13.08	84.68	6.97	NM	3.19	8.2	NS	NS	NS
	10/10/06	13.17	84.59	7.05	599	0.55	78.0	NS	NS	NS NS
	10/23/06	12.25	85.51	6.28	NM	2.18	NM	NS NS	NS NS	NS
	11/7/06	12.45	85.31	6.60	NM	9.35 10.34	-68.8 177.8	NS	NS	NS
	11/20/06	11.81	85.95 85.45	6.52 7.24	NM NM	3.85	342.4	NS	NS	NS
	12/4/06 12/18/06	12.31 12.77	85.45 84.99	6.27	NM	8.35	-31.9	NS	NS	NS
	1/2/18/06	12.77	85.12	7.19	NM	7.25	-209.7	NS	NS	NS
	1/15/07	12.19	85.57	7.12	NM	7.39	-209.4	NS	NS	NS
	1/25/07	12.27	85.49	7.25	627	1.20	6.0	<0.5	28.4	5.98
	1/29/07	12.47	85.29	7.18	NM	8.72	-125.6	NS	NS	NS NS
	2/12/07	12.96	84.80	7.55	NM	10.63	-89.0 NM	NS NS	NS NS	NS
	2/26/07	NG-S	NA	NM	NM	NM NM	NM	NS	NS	NS
	3/12/07	NG-S	NA 05.62	NM 6.72	NM NM	8.71	-80.60	NS	NS	NS
	3/26/07 4/10/07	12.13 11.51	85.63 86.25	7,00	NM	14.93	-8.40	NS	NS	NS
	4/10/07	10.62	87.14	6.70	819	1.43	-66.8	NS	NS	NS
	5/7/07	11.52	86.24	5.24	NM	12.26	38.2	NS	NS	NS
	5/24/07	11.38	86.38	5.43	NM	9.37	49.2	NS	NS	NS
	6/4/07	12.4	85.36	5.72	NM	8.62	-16.7	NS	NS	NS NS
	6/18/07	12.59	85.17	6.64	NM	12.59	-141.8 37.7	NS NS	NS NS	NS
	7/3/07	12.98	84.78	7.98	NM NM	15.82 15.98	56.4	NS	NS	NS
	7/16/07	13.27 13.18	84.49 84.58	6.78	NM	18.48	-76.9	NS	NS	NS
	8/1/07 8/13/07	13.36	84.50	6.77	NM	2.18	-262.7	NS	NS	NS
	8/27/07	13.48	84.28	6.77	NM	11.05	-115.8	NS	NS	NS
	9/10/07	13.55	84.21	7.58	NM	9.23	-48.2	NS	NS	NS
	9/25/07	13.63	84.13	7.55	NM	7.23	-50.1	NS	NS 97.9	NS 5.01
	10/4/07	13.73	84.03	7.04	800	5.31	-99.0 -329.9	<0.1 NS	37.8 NS	5.21 NS
	10/9/07	13.77	83.99	6.47	NM	5.10 4.38	-50.3	NS	NS	NS
	10/22/07	13.50	84.26 84.40	7.63 7.88	NM NM	7.21	-42.7	NS	NS	NS
	11/5/07 11/19/07	13.36 13.09	84.67	7.58	NM	3.71	-48.5	NS	NS	NS
	12/3/07	13.04	84.72	7.21	NM	7.07	-127.1	NS	NS	NS
	12/17/07	13.18	84.58	7.17	NM	7.01	-125.1	NS	NS	NS
	1/2/08	12.71	85.05	6.17	. NM	5.21	41.4	NS	NS	NS
	1/14/08	12.24	85.52	6.09	NM	5.02	40.1 8.2	NS NS	NS NS	NS NS
	1/29/08	12.64	85.12	7.12 NM	NM NM	8.75 NM	NM	NS NS	NS	NS
	2/11/08	12.27	85.49 86.43	NM NM	NM	NM	NM	NS	NS	NS
	3/7/08 3/11/08	11.33 10.68	87.08	7.12	932	2.97	-77	<0.5	27.1	2.08
	5/1/08	11.41	86.35	6.56	1,810	1.45	1.0	<1.0	28.9	21.6
	5/27/08	11.08	86.68	NM	NM	NM	NM	NS	NS	NS
	6/4/08	12.51	85.25	5.83	NM	2.11	100.1	NS	NS	NS
	6/17/08	12.33	85.43	6.33	NM	2.85	-102.2	NS	NS	NS
	7/1/08	12.30	85.46	6.45	NM	0.95	-50.7	NS	NS NS	NS NS
	7/9/08	NM	85.46	NM C 27	NM	NM 1.68	NM -31.9	NS NS	NS	NS
	7/14/08	10.7	87.06	6.37	NM NM	1.68 2.68	-40.0	NS	NS	NS
	7/30/08	11.88	85.88 85.45	6.26 6.59	NM NM	6.81	-40.0	NS	NS	NS
	8/12/08 8/20/08	12.31 11.91	85.85	NM	NM	NM	NM	NS	NS	NS
	8/20/08	11.91	84.98	6.65	NM	1.78	-35.6	NS	NS	NS
	9/9/08	11.83	85.93	6.48	NM	5.38	-47.2	NS	NS	NS

Ift = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts. NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured. 97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. Bold date denotes a groundwater sampling event. \* indicates these wells are sampled for secondary MNA parameters. \*\* Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

		/Mobil Station st Street assachusetts	3		Gr	oundwater Geo	Table 2 ochemical M	Ionitoring Da	ta	
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Irc (mg/L)
ECS-4**	11/8/99	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.06	12/19/02	NA	NA	NA	NA	NA	NA	NS	NS	NS
96.75	9/8/05	11.94	84.81	NM	NM	NM	NM	NS	NS	NS
	1/25/06	NG	NA	NM	NM	NM	NM	NS	NS	NS
	4/10/06	11.51	85.24	NM	NM	NM	NM	NS	NS	NS
	7/20/06	11.96	84.79	5.67	1,013	246	932	NS	NS	NS
	9/15/06	DRY	NA	NM	NM	NM	NM	NS	NS	NS
	9/21/06	DRY	NA	NM	NM	NM	NM	NS	NS	NS
	10/6/06	12.36	84.39	NM	NM	NM	NM	NS	NS NS	NS NS
	10/10/06	12.43	84.32	NS	NS	NS	NS	NS NS	NS	NS
	10/23/06	11.75	85.00	5.94	NM	2.51	NM -42.90	NS	NS	NS
	11/7/06	11.72	85.03	6.54	NM NM	10.47 10.25	-42.90 166.30	NS	NS	NS
	11/20/06	11.08	85.67	7.01	NM NM	NM	NM	NS	NS	NS
	12/4/06	DRY	NA NA	NM NM	NM	NM	NM	NS	NS	NS
	12/18/06	DRY	84.82	6.78	NM	10.48	-36.50	NS	NS	NS
	1/2/07 1/15/07	11.93 11.41	85.34	6.95	NM	10.82	-86.90	NS	NS	NS
	1/15/07	11.41	85.20	NS	NM	NS	NS	NS	NS	NS
	1/29/07	11.33	85.03	6.95	NM	12.86	-35.2	NS	NS	NS
	2/12/07	12.23	84.52	NM	NM	NM	NM	NS	NS	NS
	2/26/07	NG	NA	NM	NM	NM	NM	NS	NS	NS
	3/12/07	12.42	84.33	NM	NM	NM	NM	NS	NS	NS
	3/26/07	11.39	85.36	5.87	NM	13.76	179.60	NS	NS	NS
	4/10/07	10.46	86.29	6.75	NM	12.17	64.50	NS	NS	NS
	4/24/07	9.88	86.87	5.83	891	4.95	202	NS ·	NS	NS
	5/7/07	11.79	84.96	6.42	NM	5.34	136	NS	NS	NS
	5/24/07	11.65	85.10	6.23	NM	4.21	150	NS	NS	NS
	6/4/07	11.63	85.12	5.72	NM	9.72	38	NS	NS	NS NS
	6/18/07	11.81	84.94	6.53	NM	12.81	123	NS	NS NS	NS
	7/3/07	12.25	84.50	7.65	NM	7.17	87 83	NS NS	NS	- NS
	7/16/07	12.31	84.44	7.41	NM	7.23 20.52	101	NS	NS	NS
	8/1/07	12.47	84.28	6.58	NM NM	6.61	265	NS	NS	NS
	8/13/07	12.53	84.22	6.40 6.59	NM	9,21	-89	NS	NS	NS
	8/27/07	12.61 DRY	84.14 96.75	NM	NM	NM	NM	NS	NS	NS
	9/10/07 9/25/07	DRY	96.75	NM	NM	NM	NM	NS	NS	NS
	9/25/07	DRY	96.75	NM	NM	NM	NM	NS	NS	· NS
	10/9/07	DRY	96.75	NM	NM	NM	NM	NS	NS	NS
	10/22/07	DRY	96.75	NM	NM	NM	NM	NS	NS	NS
	11/5/07	12.62	84.13	NM	NM	NM	NM	NS	NS	NS
	11/19/07	12,31	84.44	NM	NM	NM	NM	NS	NS	NS
	12/3/07	12.31	84.44	NM	NM	NM	NM	NS	NS	NS
	12/17/07	NG	NG	NM	NM	NM	NM	NS	NS	NS
	1/2/08	DRY	96.75	NM	NM	NM	NM	NS	NS	NS
	1/14/08	DRY	96.75	NM	NM	NM	NM	NS	NS	NS
	1/29/08	DRY	96.75	NM	NM	NM	NM	NS	NS	NS
	2/11/08	DRY	96.75	NM	NM	NM 4.20	NM 72.9	NS	NS	NS NS
	3/7/08	10.55	86.20	6.72	827	4.20	72.8	NS NS	NS NS	NS
	3/11/08	9.93	86.82	6.78	887	9.81 1.21	92 46	NS	NS	NS
	5/1/08	10.71	86.04	6.64	984 NM	NM	NM	NS	NS	NS
	5/27/08	11.32	85.43	NM 6.03	NM NM	1.16	12.3	NS	NS	NS
	6/4/08	11.65	85.10 84.87	6.03	NM	1.16	88.4	NS	NS	NS
	6/17/08	11.88	84.87 85.02	6.63	NM	2.12	99.7	NS	NS	NS
	7/1/08	11.73 NM	85.02	NM	NM	NM	NM	NS	NS	NS
	7/9/08	1	84.67	6.45	NM	1.93	84	NS	NS	NS
	7/14/08	12.08 11.16	85.59	6.20	NM	4.24	112	NS	NS	NS
	7/30/08 8/12/08	11.16	85.10	6.55	NM	5.18	66.6	NS	NS	NS
	8/12/08	11.38	85.37	NM	NM	NM	NM	NS	NS	NS
	8/26/08	11.97	84.78	6.58	NM	3.12	-21	NS	NS	NS
	9/9/08	11.13	85.62	6.51	NM	4.37	47.6	NS	NS	NS

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts. NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. Bold date denotes a groundwater sampling event. \* indicates these wells are sampled for secondary MNA parameters. \*\* Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

	•••	/Mobil Station st Street assachusetts	n		Gr	oundwater Geo	Table 2 chemical N	Ionitoring Da	ta .	
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
500 F	11/8/99	NA	NA	NA	NA	NA	NA .	NS	NS	NS
ECS-5	12/19/02	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.73		12.44	85.12	5.12	893	1.47	484	NS	NS	NS
97.56	9/8/05	12.44	87.34	7.31	830	1.67	6.0	NS	NS	NS
	1/25/06		86.41	6.81	910	2.61	18.0	NS	NS	NS
	4/11/06	11.15	85.08	4.93	803	2.63	559	NS	NS	NS
	7/20/06	12.48	84.58	4.93 NM	NM	NM	NM	NS	NS	NS
	10/10/06	12.98		NM	NM	NM	NM	NS	NS	NS
	1/25/07	12.14	85.42		NM	2.21	193.8	NS	NS	NS
	2/26/07	12.11	85.45	8.06	NA	NA	NA	NS	NS	NS
	4/24/07	10.43	87.13	NA	813	3.98	82.0	NS	NS	NS
	10/4/07	13.57	82.77	7.30	726	3.34	90.6	NS	NS	NS
	3/7/08	11.20	85.14	6.94		1	105	NS	NS	NS
	3/11/08	10.54	85.80	7.10	834	1.52	NA	NS	NS	NS
	5/1/08	11.27	85.07	NA	NA	NA	INA	CN1	110	
ECS-6	2/13/03	NA	NA	NA	NA	NA	NA	NS	NS	NS
96.58	9/8/05	11.34	85.00	4.97	972	0.43	258	NS	NS	NS
96.34	11/1/05	9.57	86.77	6.67	893	1.22	26.8	NS	NS	NS
90.34	1/25/06	9.10	87.24	6.90	907	0.60	-99.0	NS	NS	NS
	4/10/06	11.05	85.29	7.15	1,146	0.47	64.0	NS	NS	NS
	7/20/06	11.40	84.94	4.11	907	0.17	561	NS	NS	NS
	10/10/06	11.89	84.45	NM	657	0.84	86.4	NS	NS	NS
	1/25/07	10.99	85.35	7.12	802	1,91	49.0	NS	NS	NS
	4/24/07	9.35	86.99	6.71	885	0.26	-10.4	NS	NS	NS
	10/4/07	12,46	83.88	6.87	947	1,20	-4.0	NS	NS	NS
	3/7/08	10.05	86.29	6.16	1721	1.18	68.4	NS	NS	NS
	3/11/08	10.00	85.90	6.04	1408	0.35	83.0	22.8	252	30.6
	5/1/08	10.44	86.18	6.57	880	0.72	24.0	<2.0	100	5.7
										10
ECS-7	2/13/03	NA	NA	NA	NA	NA	NA	NS	NS	NS
95.97	9/8/05	9.75	85.79	5.55	1,398	1.20	243	NS	NS	NS
95.54	1/25/06	9.05	86.49	6.85	925	0.35	16.0	NS	NS	NS
	4/10/06	9.90	85.64	6.44	1,490	0.79	180	NS	NS	NS
	7/20/06	9.78	85.76	NM	NM	NM	NM	NS	NS	NS
	10/10/06	9.96	85.58	NM	NM	NM	NM	NS	NS	NS
	1/25/07	9.70	85.84	NM	NM	NM	NM	NS	NS	NS
	4/24/07	9.47	86.07	NM	NM	NM	NM	NS	NS	NS
	10/4/07	10.41	85.13	6.58	1,089	0.39	9	NS	NS	NS
	3/7/08	14.79	80.75	6.63	962	2.62	60.2	NS	NS	NS
	5/1/08	9.62	85.92	NM	NM	NM	NM	NS	NS	NS
1		I.	1					<u> </u>	<u> </u>	l

NOTES: System shut down between 2/11/08 and 5/26/08 ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. Bold date denotes a groundwater sampling event. \* indicates these wells are sampled for secondary MNA parameters. \*\*Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within 02 remediation

	730 Ea	l/Mobil Statio st Street assachusetts			Gr	oundwater Geo	Table 2 ochemicai I	ionitoring Da	ata	
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	рН (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved In (mg/L)
ECS-8**	2/13/03	NA	NA	NA	NA	NA	NA	NS	NS	NS
95.72	9/8/05	10.35	85.08	4.74	1,534	1.20	469	<0.1	52.6	18.3
95.43	1/25/06	NG	NA	NM	NM	NM	NM	NS	NS	NS.
	4/11/06	9.98	85.45	6.51	193	0.16	4.0	<0.1	59.2	1.64
•	7/20/06	10.28	85.15	NM	NM	NM	NM	NS	NS	NS
	9/15/06	11.29	84.14	6.62	NM	10.17	-2.8	NS	NS	NS
	9/21/06	10.31	85.12	6.75	NM	7.85	123	NS	NS	NS
	10/6/06	11.75	83.68	7.63	NM	1.23	27.0	NS	NS	NS
	10/10/06	10.81	84.62	NM	NM	NM	NM	NS	NS	NS
	10/23/06	NG	NA	NM	NM	NM	NM	NS	NS	NS
	11/7/06	10.09	85.34	6.33	NM	7.43	-34.7	NS	NS	NS
	11/20/06	9.47	85.96	6.82	NM	3.53	78.6	NS	NS	NS
	12/4/06	9.92	85.51	7.92	NM	10.70	179.5	NS	NS	NS
	12/18/06	11.42	84.01	6.18	NM	7.30	27.2	NS	NS	NS
	1/2/07	10.33	85.10	6.69	NM	7.64	-98.5	NS	NS	NS
	1/15/07	9.87	85.56	6.82	NM	7.33	-109.6	NS	NS	NS
	1/25/07	9.91	85.52	NM	NM	NM	NM	NS	NS	NS
	1/29/07	10.08	85.35	7.13	NM	13.11	-79.2	NS	NS	NS
	2/12/07	11.62	83.81	6.93	NM	10.22	14.4	NS	NS	NS
	2/26/07	10.35	85.08	7.31	NM	6.41	246.7	NS	NS	NS
		10.35	85.21	7.14	NM	8.63	62.7	NS	NS	NS
	3/12/07 3/26/07	9.84	85.59	7.14	NM	9.40	39.7	NS	NS	NS
				7.06	NM	11.61	60.4	NS	NS	NS
	4/10/07	9.16	86.27	1		8.84	222.6	NS	NS	NS
	4/24/07	8.19	87.24	6.40	1,075 NM	11.69	90.8	NS	NS	NS
	5/7/07	9.00	86.43	5.01	1	1				NS
	5/24/07	9.83	85.60	5.47	NM	10.14	108.2	NS	NS	
	6/4/07	9.08	86.35	5.13	NM	8.03	43.6	NS	NS	NS
	6/18/07	10.18	85.25	6.28	NM	13.65	-14.7	NS	NS	NS
	7/3/07	10.62	84.81	7.36	NM	7.44	90.8	NS	NS	NS
	7/16/07	11.89	83.54	7.14	NM	7.54	104.7	NS	NS	NS
	8/1/07	10.83	84.60	6.45	NM	7.61	71.8	NS	NS	NS
	8/13/07	10.92	84.51	5.71	NM	3.10	-283.4	NS	NS	NS
	8/27/07	11.17	84.26	6.27	NM	7.42	-13.8	NS	NS	NS
	9/10/07	11.26	84.18	7.30	NM	9.71	-14.5	NS	NS	NS
	9/25/07	11.35	84.08	7.28	NM	7.10	-17.1	NS	NS	NS
	10/4/07	11.45	83.98	6.41	1,580	0.54	96.0	NS	NS	NS
	10/9/07	11.48	83.95	6.16	NM	2.85	-301.2	NS	NS	NS
	10/22/07	11.22	84.21	7.04	NM	4.01	-22.5	NS	NS	NS
	11/5/07	11.05	84.38	7.08	NM	3.01	39.9	NS	NS	NS
	11/19/07	10.79	84.64	7.03	NM	3.85	-25.2	NS	NS	NS
	12/3/07	9.74	85.69	7.01	NM	2.98	38.4	NS	NS	NS
	12/17/07	NG	NG	NM	NM	NM	NM	NS	NS	NS
	1/2/08	NG	NG	NM	NM	NM	NM	NS	NS	NS
	1/14/08	NG	NG	NM	NM	NM	NM	NS	NS	NS
	1/29/08	10.31	85.12	6.42	NM	4.51	73.0	NS	NS	NS
	2/11/08	NG	NG	NM	NM	NM	NM	NS	NS	NS
	3/11/08	NG	NG	NM	NM	NM	NM	NS	NS	NS
	3/24/08	8.56	86.87	6.33	1078	2.37	46	3.34	70.6	<0.03
	5/1/08	9.02	86.41	6.64	1451	0.50	27	NS	NS	NS
	5/27/08	9.59	85.84	NM	NM	NM	NM	NS	NS	NS
	6/4/08	10.07	85.36	6.00	NM	1.06	-5	NS	NS	NS
	6/17/08	9.82	85.61	6.46	NM	1.87	49.5	NS	NS	NS
					NM	1.43	5.7	NS	NS	NS
	7/1/08	9.72	85.71	6.49	ł		1			NS
	7/9/08	NM 10.00	85.71	NM	NM	NM 4.94	NM FO 1	NS	NS	
	7/14/08	10.23	85.20	6.32	NM	1.84	50.1	NS	NS	NS
	7/30/08	9.51	85.92	6.00	NM	2.77	57	NS	NS	NS
	8/12/08	9.81	85.62	6.30	NM	2.02	15.6	NS	NS	NS
	8/20/08	9.47	85.96	NM	NM	NM	NM	NS	NS	NS
	8/26/08	10.02	85.41	6.32	NM	2.00	9.4	NS	NS	NS
	9/9/08	8.89	86.54	6.22	NM	1.95	23.7	NS	NS	NS

It = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts. NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured. 97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. Bold date denotes a groundwater sampling event. \* indicates these wells are sampled for secondary MNA parameters. \*\*Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

		I/Mobil Station st Street assachusetts			Gr	oundwater Geo	Table 2 Inchemical N	Ionitoring Dat	a	
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-9* 95.22 94.99	2/13/03 9/19/05 1/25/06 4/11/06 7/20/06 10/10/06 1/25/07 4/24/07 10/4/07 3/7/08 3/11/08 5/1/08	NA 10.91 8.38 10.33 10.72 11.12 10.31 8.57 11.79 9.22 8.63 9.47	NA 84.08 86.61 84.66 84.27 83.87 84.68 86.42 83.20 85.77 86.36 85.52	NA 6.22 6.32 6.52 3.02 NA 6.64 6.64 6.69 6.57 6.75 6.75	NA 1,047 944 157 1,136 NA 995 1,609 1,478 1,195 1,217 1,730	NA 4.69 0.80 0.30 NA 1.42 0.58 1.11 2.80 0.32 0.52	NA -46.8 -89.0 -13.0 445 NA -2 -2.6 -94.0 36.5 12.0 46.0	NS <0.1 <0.1 <0.1 <0.1 NS <0.5 NS <0.1 NS <0.1 <1.0	NS <1.0 7.27 <1.0 <1.0 NS <5.0 NS 8.05 NS 36.2 61.3	NS 11.5 9.75 0.945 10.8 NS 10.6 NS 47.1 NS 6.76 0.40
ECS-10 95.90 95.75	2/13/03 9/8/05 1/25/06 4/10/06 7/20/06 10/10/06 1/25/07 4/24/07 10/4/07 3/7/08 3/11/08	NA 9.59 8.57 9.52 9.42 9.64 9.31 8.53 10.18 8.01 5.74 8.87	NA 86.16 87.18 86.23 86.33 86.11 86.44 87.22 85.57 87.74 90.01 86.88	NA 4.40 6.96 6.60 NM NM NM 6.60 6.70 6.58 6.93	NA 1,624 1,850 234 NM NM NM 1,570 1,473 930 1,650	NA 0.93 0.37 0.35 NM NM NM 0.36 0.46 0.51 0.57	NA 601 23.0 180 NM NM NM 15.0 62.2 82.0 47.0	NS NS NS NS NS NS NS 3.84 13.3	NS NS NS NS NS NS NS 27.2 45.2	NS NS NS NS NS NS NS NS 1.20 <0.03

 NOTES:
 System shut down between 2/11/08 and 0/20/08

 Ift = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

 NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

 97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05.

 Bold date denotes a groundwater sampling event.

 \* indicates these wells are sampled for secondary MNA parameters.

		l/Mobil Station st Street assachusetts			Gr	oundwater Geo	Table 2 schemical N	Ionitoring Da	ita	
Monitoring Veli & PVC levation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved ir (mg/L)
ECS-11**	1/25/06	9.28	87.42	6.42	1,033	0.70	-74.0	<0.1	25.2	10.4
96.70	4/10/06	10.94	85.76	6.92	1,103	0.67	-5.0	NS	NS	NS
	7/20/06	11.31	85.39	4.75	1,024	0.25	503	NS	NS	NS
	9/15/06	12.31	84.39	7.00	NM	8.92	-49.9	NS	NS	NS
	9/21/06	11.89	84.81	6.95	NM	10.01	266	NS	NS	NS
	10/6/06	11.74	84.96	8.10	NM	2.48	-41.5	NS	NS	NS
	10/10/06	11.81	84.89	NM	649	0.63	71.4	NS	NS	NS
	10/23/06	11.20	85.50	6.12	NM	1.60	NM	NS	NS	NS
	11/7/06	10.74	85.96	6.76	NM	10.43	-51.4	NS	NS	NS
	11/20/06	10.49	86.21	7.56	NM	8.52	-11.5	NS	NS	NS
	12/4/06	10.93	85.77	7.46	NM	12.59	232.5	NS	NS	NS
	12/18/06	11.40	85.30	6.44	NM	8.36	-8.5	NS	NS	NS
	1/2/07	11.34	85.36	7.69	NM	8.39	-127.5	NS	NS	NS
	1/15/07	10.89	85.81	7.34	NM	8.16	-133.4	NS	NS	NS
	1/25/07	10.98	85.72	7.03	849	1.58	4.0	NS	NS	NS
	1/29/07	11.11	85.59	7.43	NM	8.73	-105.0	NS	NS	NS
	2/12/07	11.54	85.16	7.22	NM	10.69	-48.6	NS	NS	NS
	2/26/07	11.14	85.56	7.14	NM	4.89	NM	NS	NS	NS
	3/12/07	11.91	84.79	7.07	NM	9.85	42.4	NS	NS	NS
	3/26/07	10.86	85.84	7.29	NM	10.23	-38.8	NS	NS	NS NS
	4/10/07	10.2	86.50	7.25	NM	12.52	66.7	NS	NS	NS
	4/24/07	9.35	87.35	5.70	1,163	0.30	149.2	NS	NS NS	NS
	5/7/07	10.18	86.52	5.37	NM	12.55 11.23	59.1 58.6	NS NS	NS	NS
	5/24/07	10.98	85.72	5.82	NM NM	6.17	210.1	NS	NS	NS
	6/4/07	11.05	85.65	6.63	NM	9.23	10.2	NS	NS	NS
	6/18/07	11.28	85.42	6.72 7.85	NM	15.90	81.5	NS	NS	NS
	7/3/07	11.65 12.92	85.05 83.78	7.03	NM	13.29	98.3	NS	NS	NS
	7/16/07 8/1/07	12.92	84.83	6.94	NM	9.42	-0.6	NS	NS	NS
		11.07	84.73	6.27	NM	1.21	-319,1	NS	NS	NS
	8/13/07 8/27/07	12.2	84.50	6.65	NM	8.97	-51.7	NS	NS	NS
	9/10/07	12.29	84.41	7.28	NM	5.81	-41.1	NS	NS	NS
	9/25/07	12.29	84.34	7.26	NM	5.23	-42.3	NS	NS	NS
	10/4/07	12.47	84.23	6.64	1,176	1.07	-11.0	NS	NS	NS
	10/9/07	12.52	84.18	6.91	NM	5.33	-306.3	NS	NS	NS
	10/22/07	12.26	84.44	7.91	NM	4.20	-64.1	NS	NS	NS
	11/5/07	12.10	84.60	7.56	NM	2.80	-15.1	NS	NS	NS
	11/19/07	11.82	84.88	7.82	NM	4.07	-69.7	NS	NS	NS
	12/3/07	12.79	83.91	7.31	NM	2.68	-98.1	NS	NS	NS
	12/17/07	11.93	84.77	7.03	NM	2.97	-91.5	NS	NS	NS
	1/2/08	11.40	85.30	6.61	NM	4.95	-96.2	NŞ	NS	NS
	1/14/08	11.01	85.69	6.60	NM	4.52	-65.7	NS	NS	NS
	1/29/08	11.34	85.36	7,11	NM	5.47	20.9	NS	NS	NS
	2/11/08	11.19	85.51	NM	NM	NM	NM	NS	NS	NS
	3/7/08	9.84	86.86	6.86	1,999	0.16	70.7	NS	NS	NS
	3/11/08	9.36	87.34	6.88	1,601	0.86	-25.0	NS	NS	NS
	5/1/08	10.28	86.42	7.04	1,471	0.52	12.0	NS	NS	NS
	5/27/08	10.63	86.07	NM	NM	NM	NM	NS	NS	NS
	6/4/08	11.01	85.69	6.48	NM	0.29	-28.7	NS	NS	NS
	6/17/08	11.03	85.67	7.22	NM	2.17	-37.3	NS	NS	NS
	7/1/08	10.55	86.15	7.29	NM	0.90	-32.4	NS	NS	NS
	7/9/08	NM	86.15	NM	NM	NM	NM	NS	NS	NS
	7/14/08	11.84	84.86	6.81	NM	1.70	19.0	NS	NS	NS
	7/30/08	10.58	86.12	6.55	NM	1.98	-17.8	NS	NS	NS
	8/12/08	10.58	86.12	6.86	NM	0.86	112.4	NS	NS	NS
	8/20/08	11.02	85.68	NM	NM	NM 1.02	NM 44.2	NS	NS	NS NS
	8/26/08	10.81	85.89	6.90	NM	1.93	-11.2	NS	NS	GVI I

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. Bold date denotes a groundwater sampling event. \* indicates these wells are sampled for secondary MNA parameters. \*\*Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

	• • • •	i/Mobil Station st Street assachusetts	1		Gr	oundwater Geo	Table 2 chemical M	lonitoring Da	ta	
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-12*( )	1/25/06	8.64	87.51	6.44	1,207	0.53.	-117	NS	NS	NS
96.15	4/10/06	10.60	85.55	6.65	1,436	0.42	14.0	NS	NS	NS
•••••	7/20/06	10.95	85.20	4.19	1,419	0.12	506	15.5	<5.0	15.5
	9/15/06	11.92	84.23	6.60	NM	8.11	-47.5	NS	NS	NS
	9/21/06	11.53	84.62	6.67	NM	9.63	283	NS NS	NS NS	NS NS
	10/6/06	11.35	84.80	7.68	NM	1.24	-22.7 -23.3	NS NS	NS	NS
	10/10/06	11.42	84.73	6.58	1,291	0.48	-23.3 NM	NS	NS	NS
	10/23/06	10.79	85.36	5.91	NM NM	1.46 5.74	-69.8	NS	NS	NS
	11/7/06	10.74	85.41 86.00	6.65 6.94	NM	8.77	72.5	NS	NS	NS
	11/20/06	10.15	85.57	7.32	NM	12.13	199.4	NS	NS	NS
	12/4/06 12/18/06	10.58 11.04	85.11	6.20	NM	7.52	-3.8	NS	NS	NS
	12/18/06	10.96	85.19	7.29	NM	8.41	-120.8	NS	NS	NS
	1/15/07	10.56	85.59	7.02	NM	8.29	-128.6	NS	NS	NS
	1/25/07	12.55	83.60	6.93	1,500	1.51	9.0	<2.0	<20.0	15.8
	1/29/07	11.74	84.41	7.22	NM	13.75	-94.7	NS	NS	NS
	2/12/07	11.23	84.92	6.95	NM	13.78	-52.9	NS	NS	NS
	2/26/07	NG-S	NA	NM	NM	NM	NM	NS	NS	NS
	3/12/07	NG-S	NA	NM	NM	NM	NM	NS NS	NS NS	NS NS
	3/26/07	10.42	85.73	7.06	NM	12.40	-89.60	NS	NS	NS
	4/10/07	9.77	86.38	6.76	NM	10.88 0.30	-14.00 -57.8	NS	NS	NS
	4/24/07	8.83	87.32	5.48 5.93	1,642 NM	16.80	-11.9	NS	NS	NS
	5/7/07	9.89 10.21	86.26 85.94	6.01	NM	13.25	24.3	NS	NS	NS
	5/24/07 6/4/07	10.66	85.49	5.99	NM	12.92	28.4	NS	NS	NS
	6/18/07	10.86	85.29	6.71	NM	12.56	-84.4	NS	NS	NS
	7/3/07	11.27	84.88	7.85	NM	21.14	46.2	NS	NS	NS
	7/16/07	12.54	83.61	7.88	NM	18.24	60.7	NS	NS	NS
	8/1/07	11.47	84.68	6.80	NM	9.79	-59.9	NS	NS	NS
	8/13/07	11.56	84.59	6.35	NM	1.35	-331.1	NS	NS	NS
	8/27/07	11.78	84.37	6.34	NM	8.73	-75.3	NS	NS	NS
	9/10/07	11.87	84.28	7.26	NM	5.96	-68.2	NS	NS	NS NS
	9/25/07	11.95	84.20	7.23	NM	5.30	-69.9	NS <0.1	NS 10.0	21.3
	10/4/07	12.04	84.66	6.71	1,740	1.11	-86.0 -300.4	NS	NS	NS
	10/9/07	12.08	84.62	6.71 7.42	NM NM	3.31	-40.7	NS	NS	NS
	10/22/07	11.82	84.88 85.04	7.47	NM	6.90	-99.2	NS	NS	NS
	11/5/07 11/19/07	11.66 11.38	85.32	7.34	NM	2.97	-39.5	NS	NS	NS
	12/3/07	12.87	83.83	7.49	. NM	6.95	-111.5	NS	NS	NS
	12/17/07	11.47	85.23	7.49	NM	6.51	-110.1	NS	NS	NS
	1/2/08	10.97	85.73	6.52	NM	6.51	-76.1	NS	NS	NS
	1/14/08	10.59	86.11	6.59	NM	6.01	-71.5	NS	NS	NS
	1/29/08	10.92	85.78	6.85	NM	6.38	16.1	NS	NS	NS
	2/11/08	10.82	85.88	NM	NM	NM	NM	NS	NS	NS
	3/24/08	9.15	87.55	6.75	1,510	0.44	-25	<0.1	2.72 <1.0	16.3 6.31
ł	5/1/08	9.71	86.99	7.00	1,600	0.35	-29 NM	<0.1 NS	NS	NS
	5/27/08	10.18	86.52	NM 6.67	NM	NM 0.45	-112.2	NS	NS	NS
	6/4/08	11.82	84.88	6.67 7.36	NM NM	0.45	-166.2	NS	NS	NS
	6/17/08	10.61	86.09 86.08	7.02	NM	1.66	-75	NS	NS	NS
	7/1/08 7/9/08	10.62 NM	86.08	NM	NM	NM	NM	NS	NS	NS
	7/9/08	10.96	85.74	6.63	NM	1.18	-62.7	NS	NS	NS
	7/30/08	10.98	86.52	6.48	NM	2.15	-52.3	NS	NS	NS
	8/12/08	10.10	86.10	6.77	NM	0.90	-63.5	NS	NS	NS
	8/20/08	10.67	86.03	NM	NM	NM	NM	NS	NS	NS
	8/26/08	11.02	85.68	6.71	NM	2.02	-52.2	NS	NS	NS
	9/9/08	10.71	85.99 2/11/08 and 5/26	6.80	NM	0.88	-88.1	NS	NS	NS

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. Bold date denotes a groundwater sampling event. \* indicates these wells are sampled for secondary MNA parameters. \*\*Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within 02 remediation

	730 Ea	i/Mobil Statio st Street assachusetts			Gr	oundwater Geo	Table 2 ochemical N	fonitoring Da	ita	
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved irc (mg/L)
ECS-13**	1/25/06	NG	NA	NM	NM	NM	NM	NS	NS	NS
97.66	4/10/06	12.20	85.46	6.61	246	0.75	-2.0	NS	NS	NS
	7/20/06	12.53	85.13	3.00	890	0.28	543	NS	NS	NS
	9/15/06	10.45	87.21	7.10	NM	9.28	-40.2	NS	NS	NS
	9/21/06	13.11	84.55	7.76	NM	11.94	244	NS	NS	NS
	10/6/06	12.97	84.69	8.19	NM	4.94	-7.6	NS	NS	NS
	10/10/06	13.01	84.65	6.32	533	0.73	14.2	NS	NS	NS
	10/23/06	12.34	85.32	6.40	NM	1.50	NM	NS	NS	NS
	11/7/06	12.31	85.35	6.25	NM	13.45	109.4	NS	NS	NS
	11/20/06	11.72	85.94	6.74	NM	3.33	16.3	NS	NS	NS
	12/4/06	12.18	85.48	7.42	NM	9.57	180.2	NS	NS	NS
	12/18/06	12.62	85.04	6.40	NM	5.97	-13.7	NS	NS	NS
	1/2/07	12.58	85.08	7.29	NM	6.41	-135.4	NS	NS	NS
	1/15/07	12.04	85.62	7.18	NM	6.27	-173.5	NS	NS	NS
	1/25/07	12.18	85.48	7.59	668	1.46	57.0	NS	NS	NS
	1/29/07	12.34	85.32	7.58	NM	12.82	-84.6	NS	NS	NS
	2/12/07	12.83	. 84.83	7.41	NM	8.54	-59.4	NS	NS	NS
	2/26/07	NG-S	NA	NM	NM	NM	NM	NS	NS	NS
	3/12/07	NG-S	NA	NM	NM	NM	NM	NS	NS	NS
	3/26/07	12.03	85.63	6.92	NM	14,41	104.50	NS	NS	NS
	4/10/07	11.41	86.25	6.69	NM	13.47	14.60	NS	NS	NS
	4/24/07	10.51	87.15	6.96	685	280.00	-41.3	NS	NS	NS
	5/7/07	11.42	86.24	4.75	NM	15.95	125.6	NS	NS	NS
	5/24/07	11.27	86.39	5.06	NM	14.82	132.7	NS	NS	NS
	6/4/07	12.27	85.39	6.18	NM	11.05	21.8	NS	NS	NS
	6/18/07	12.50	85.16	7.31	NM	14.44	48.1	NS	NS	NS
	7/3/07	12.88	84.78	8.22	NM	12.65	73.3	NS	NS	NS
	7/16/07	12.95	84.71	7.81	NM	12.64	88.1	NS	NS	NS
	8/1/07	13.07	84.59	7.34	NM	24.48	110.5	NS	NS	NS
	8/13/07	13.17	84.49	6.97	NM	10.09	-256.6	NS	NS	NS
	8/27/07	13.39	84.27	6.61	NM	10.78	-111.8	NS	NS	NS
	9/10/07	13.45	84.21	7.73	NM	7.28	-83.8	NS	NS	NS
	9/25/07	13.52	84.14	7.72	NM	7.10	-86.7	· NS	NS	NS
	10/4/07	13.64	84.02	7.22	937	0.53 3.41	-53.0 -268.4	NS NS	NS NS	NS NS
	10/9/07	13.67	83.99	6.61	NM	1			1	
	10/22/07	13.38	84.28	7.52	NM	4.81 8.19	-46.2 -37.1	NS NS	NS NS	NS NS
	11/5/07	13.20 12.92	84.46 84.74	7.13	NM NM	4.02	-45.5	NS	NS	NS
	11/19/07 12/3/07	12.92	84.79	7.43	NM	8.12	-102.4	NS	NS	NS
	12/17/07	13.01	84.65	7.19	NM	7.15	-102.5	NS	NS	NS
	1/2/08	12.54	85.12	6.01	NM	5.10	39.8	NS	NS	NS
	1/14/08	12.04	85.60	6.05	NM	5.04	42.3	NS	NS	NS
	1/29/08	12.53	85.13	7.01	NM	8.13	-11.3	NS	NS	NS
	2/11/08	12.34	85.32	NM	NM	NM	NM	NS	NS	NS
	3/7/08	11,19	86.47	7.19	161	8.81	303	NS	NS	NS
	3/11/08	10.80	86.86	7.27	905	3.52	-39	NS	NS	NS
	5/1/08	11.28	86.38	6.44	1,350	1.00	-7	NS	NS	NS
	5/27/08	10.63	87.03	NM	NM	NM	NM	NS	NS	NS
	6/4/08	12.44	85.22	6.28	NM	4.81	49,1	NS	NS	NS
	6/17/08	12.18	85.48	7.08	NM	7.41	33.8	NS	NS	NS
	7/1/08	12.20	85.46	6.61	NM	0.80	25.1	NS	NS	NS
	7/9/08	NM	85.46	NM	NM	NM	NM	NS	NS	NS
	7/14/08	12.56	85.10	6.53	NM	2.29	-18	NS	NS	NS
	7/30/08	11.78	85.88	6.75	NM	2.52	47.2	NS	NS	NS
	8/12/08	12.21	85.45	6.69	NM	1.85	-28.3	NS	NS	NS
	8/20/08	11.49	86.17	NM	NM	NM	NM	NS	NS	NS
	8/26/08	12.65	85.01	6.82	NM	0.96	-62.5	NS	NS	NS
	9/9/08	11.99	85.67	6.72	NM	1.37	-42.7	NS	NS	NS

 NOTES:
 System shut down between 2/11/08 and 5/26/08

 ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

 NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

 97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05.
 Botd date denotes a groundwater sampling event. Italicized GW elevation is estimate

 \* indicates these wells are sampled for secondary MNA parameters.
 \*\*Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

		/Mobil Station st Street assachusetts		Table 2 Groundwater Geochemical Monitoring Data										
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissoived Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)				
		10.00	86.25	6.92	1,310	0,20	4.0	NS	NS	NS				
ECS-14	4/10/06 7/20/06	10.00	85.94	NM	NM	NM	NM	NS	NS	NS				
96.25	10/10/06	10.31	85.46	NM	NM	NM	NM	NS	NS	NS				
	1/25/07	9.87	86.38	NM	NM	NM	NM	NS	NS	NS				
	4/24/07	8.51	87.74	NM	NM	NM	NM	NS	NS	NS				
	10/4/07	11.35	84.90	6.90	1,720	1.21	-81	NS	NS	NS				
· ·	3/7/08	9.13	87.12	6.83	1,698	0.42	16.6	NS	NS	NS				
ECS-15	4/10/06	10.47	85.98	6.54	1,357	0.97	68.0	NS	NS	NS				
96.45	7/20/06	10.72	85.73	NM	NM	NM	NM	NS	NS	NS				
00.40	10/10/06	11.23	85.22	NM	NM	NM	NM	NS	NS	NS				
	1/25/07	10.37	86.08	NM	NM	NM	NM	NS	NS	NS				
	4/24/07	8.93	87.52	NM	NM	NM -	NM	NS	NS	NS				
	10/4/07	11.91	84.54	6.24	1,082	0.90	80	NS	NS	NS				
	3/7/08	9.68	86.77	6.61	898	3.06	34.6	NS	NS	NS				

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts. NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured. NG-S= Not gauged due to snow.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. Bold date denotes a groundwater sampling event. \* indicates these wells are sampled for secondary MNA parameters. \*\*Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

	Connell Oil/Mo 730 East St Pittsfield, Massa	treet		Table 3 Site Monitoring Data												
onitoring Well Elevation (ft)	Sampling Date	Depth to Water (ft)	lt Groundwater Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthalene (µg/L)	MtBE (µg/L)	C <sub>5</sub> - C <sub>8</sub> Aliphatics (mg/L)	C <sub>9</sub> - C <sub>12</sub> Aliphatics (mg/L)	C <sub>9</sub> - C <sub>10</sub> Aromatics (mg/L)	Sum ' (mg		
Revised MC	P Method 1 Stan	ıdards*	GW-2: GW-3:	2000 10000	50000 40000	20000 5000	9000 5000	NA NA	1000 20000	50000 50000	3 50	5 50	7 50			
ECS-1	11/8/99	11.48		<5.0	<5.0	<5.0	<10		<5.0	<5.0	<0.075	<0.025	<0.025	]		
97.19	12/19/02	11.60	85.59	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	· I		
97.02	9/8/05	11.78	85.38	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	-1		
97.16	1/25/06	8.49	88.67	<5.0	<5.0	<5.0	<10	ND	<5.0	6.5	0.263	<0.025	<0.025	1		
	4/11/06	11.38	85.78	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	7/20/06	11.72	85.44	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	10/10/06	12.21	84.95	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	1/25/07	11.34	85.82	<5.0	<5.0	<5.0	<10	ND	<5.0	ົ້ <5.0 ົ	<0.075	<0.025	<0.025	-		
	4/24/07	9.89	87.27	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	10/4/07	12.74	84.42	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	3/11/08	9.82	87.34	<5.0	<5.0	<5.0	<10	ND	<5.0	8.5	<0.075	<0.025	<0.025			
	5/1/08	11.50	85.66	<5.0	<5.0	<5.0	<10	ND	<5.0	8.5	<0.075	<0.025	<0.025			
ECS-2	11/8/99	12.35	85.41	<100	670	1,600	7,400	9,670	260	190	<1.50	<0.500	5.0	•		
97.76	12/19/02	12.56	85.20	<20	1,000	420	1,920	3,340	34	5,700	0.501	<0.100	0.54	~		
97.60	9/8/05	12.44	85.16	<5.0	754	463	2,396	3,613	92	3,330	2.35	1.52	3.13			
	11/1/05	10.65	86.95	<50	425	366	1,502	2,293	<50	4,590	2.37	0.44	2.81	`		
	1/25/06	10.16	87.44	32.2	778	781	3,827	5,418	163	1,970	5.23	1.39	4.31	1		
	4/10/06	12.09	85.51	42.1	600	1,040	5,820	7,502	244	1,590	9.29	3.63	6.64	<u> </u>		
	7/20/06	12.42	85.18	<100	670	1,090	5,460	7,220	240	31,700	2.70	2.85	4.53	<sup></sup> 1		
• ••••	10/10/06	12.92	84.68	<50	81.9	232	951	1,265	<50	4,860	<0.750	0.763	1.82			
	1/25/07	12.06	85.54	<10	79.1	139	642	860	29.9	1,180	0.793	0.533	1.01			
	4/24/07	10.39	87.21	<25	114	479	2,113	2,706	81.6	2,080	1.92	1.12	2.39			
	10/4/07	13.50	84.10	8.2	<5.0	247	399	654	66.7	350	1.53	0.544	1.19			
	3/11/08	10.38	87.22	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	0.623	<0.025	<0.025			
	5/1/08	11.13	86.47	<5.0	<5.0	. <5.0	7.6	7.6	<5.0	<5.0	1.60	<0.025	0.0477			
feet. µg/L = r CP Method 1 \$ ading indicates	o water in feet fro nicrograms per lit standards as set value or detectio value or detectio	er. mg/L = forth by 310 on limit exce	CMR 40.0974(2) eds GW-2 stand	) revised on Fe ard.	eburary 14, 20	008.			PVC in feet. plicable/available. Celevations followin	g well repain	s on 8/29/05 & 9	9/1/05				

	D'Connell Oil/Mo 730 East S Pittsfield, Mass	treet		Table 3 Site Monitoring Data											
onitoring Well Elevation (ft)	Sampling Date	Depth to Water (ft)	Groundwater Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthalene (µg/L)	MtBE (µg/L)	C <sub>5</sub> - C <sub>8</sub> Aliphatics (mg/L)	C <sub>9</sub> - C <sub>12</sub> Aliphatics (mg/L)	C <sub>9</sub> - C <sub>10</sub> Aromatics (mg/L)	Sun (17	
Revised MC	P Method 1 Star	ndards*	GW-2: GW-3:	2000 10000	50000 40000	20000 5000	9000 5000	NA NA	1000 20000	50000 50000	3 50	5 50	7 50		
														mg/l	
ECS-3	11/8/99	12.58	85.37	<100	10,500	2,700	12,200	25,400	370	<100	<1.50	<0.500	9.2		
97.95 ·	12/19/02	12.70	85.25	<100	2,900	1,400	4,900	9,200	100	240	0.594	<0.100	2.22		
97.76	9/8/05	12.65	85.11	55	3,210	3,010	14,190	20,465	468	821	15.1	5.5	11.0		
	11/1/05	10.87	86.89	10.2	565	536	2,250	3,361	83	<5.0	2.54	0.13	1.88	_	
•	1/25/06	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS		
	4/11/06	12.34	85.42	145	2,390	3,820	16,930	23,285	491	546	27.1	5.35	12.3	1	
	7/20/06	12.56	85.20	<20	564	744	2,909	4,217	131	70	3.50	2.40	3.15		
• •	10/10/06	13.17	84.59	15.1	1,110	1,280	5,570	7,975	150	<10	2.93	1.23	2.98		
	1/25/07	12.27	85.49	11.3	168	865	3,694	4,738	137	65.6	2.62	0.711	3.02		
	4/24/07	10.62	87.14	<5.0	87.1	112	510	709	14	7.5	0.298	0.169	0.446		
	10/3/07	13.73	84.03	<5.0	<5.0	52.7	131.9	185	8.6	<5.0	0.403	0.115	0.180		
	3/11/08	10.68	87.08	<5.0	29.4	342	618	989	27.6	<5.0	0.812	0.291	0.735		
•	5/1/08	11.42	86.34	<50.0	387.0	2,220	9,180	11,787	355	<50.0	6.75	2.86	10.00	*····	
												-0.005	0.45	• •	
ECS-4	11/8/99	11.78	85.28	<5.0	<5.0	340	460	800	20	19 NS (DRY)	0.42 NS (DRY)	<0.025 NS (DRY)	NS (DRY)		
97.06	12/19/02	12.45	84.61	NS (DRY)		NS (DRY)		NA	NS (DRY)					-	
96.75	9/8/05	11.94	84.81	NS (DRY)		NS (DRY)		NA	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY) NS	-	
	1/25/06	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS <0.075	NS <0.025	<0.025		
•••••	4/10/06	11.51	85.24	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0		<0.025	<0.025		
	7/20/06	11.96	84.79	<5.0	<5.0	<5.0	<10	ND	<5.0	10.9	<0.075				
	10/10/06	12.43	84.32	NS	NS	NS	NS	NA	NS	NS	NS 10.075	NS CO 025	NS -0.025	4	
	4/24/07	9.88	86.87	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075 NS	<0.025 NS	<0.025 NS		
	10/4/07	NM	NA	NS	NS <5.0	NS	NS	NS ND	NS <5.0	NS (29.1)	<0.075	<0.025	<0.025		
· · · · · · · · · · · · · · ·	3/11/08 5/1/08	9.93 10.71	86.82 86.04	<5.0 <5.0	<5.0	<5.0 <5.0	<10 <10		<5.0	5.6	<0.075	<0.025	<0.025	~	
· · ···· -		10.71			-0.0				-0.0					-	
DTES: Depth t	o water in feet fro	m PVC.	••••••••••••••••••••••••••••••					Elevation of	PVC in feet.					1	
•	nicrograms per li		millograms per li	ter.					plicable/available.						
	Standards as set				oburony 14 2	008		•	C elevations followi	no well repairs	on 8/29/05 & 9	0/1/05		1	

D = Duplicate sample.

	O'Connell Oil/I 730 East Pittsfield, Mas	Street		н. - С С С С С С С С				Site	Table 3 (2 of Monitoring Data	f 4)				-		
Monitoring We & Elevation (ft)	ll Sampting Dat	e Depth to Water (ft)	Groundwater Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthalene (µg/L)	MtBE (µg/L)	Cs - Cs Aliphetics (mg/L)	C <sub>9</sub> - C <sub>12</sub> Aliphatics (mg/L)	C <sub>9</sub> - C <sub>19</sub> Aromatics (mg/L)			
*Revised N	ICP Method 1 S	tandards	GW-2: GW-3:	2,000 10,000	50,000 40,000	20,000 5,000	9,000 5,000	NA NA	1,000 20,000	50,000 50,000	3.0 50.0	5.0 50.0	7.0 50.0	1	Sum VPH*1000	LN of O
														1		
ECS-5	11/8/99	12.26	85.47	<20	110	1,400	6,000	7,510	240	<20	1.2	<0.100	5.0		6,200.0	8.732
97.73	12/19/02	12.54	85.19	<5.0	<5.0	70	339	409	12	<5.0	0.105	<0.025	0.404		509.0	6.232
97.56	9/8/05	12.44	85.12	<5.0	5.7	48	208	262		<5.0	0.403	0.438	0.948	1	1,789.0	7.489
1.	1/25/06	10.22	87.34	<5.0	<5.0	28.7	109	138	20.5	<5.0	0.480	0.414	0.988		1,882.0	7.540
	4/11/06	11.15	86.41	<5.0	<5.0	13.2	52.4	65	10.1	<5.0	0.330	0.336	0.678		1,344.0	7.203
	7/20/06	12.48	85.08	<5.0	<5.0	<5.0	14.6	15	6.2	<5.0	0.187	0.286	0.414		887.0	6.788
	10/10/06	12.98	84.58	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	1	0.0	
	4/24/07	10.43	87.13	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	I	0.0	
1	10/4/07	13.57	83.99	<5.0	<5.0	· <5.0	ິ <10	ND	<5.0	<5.0	<0.075	<0.025	0.0735		73.5	4.297
	3/11/08	10.54	87.02	<5.0	<5.0	9.5	35.7	45.2	7.8	<5.0	0.335	0,156	0.430	[	921.0	6.825
	5/1/08	11.27	86.29	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	1		
· · · ·													•	mg/L	ug/L	
ECS-6	2/13/03	10.74	85.84	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	0.026	0.026	26	3.258
96.58	9/8/05	11.34	85.00	<20	53	1,170	4,183	5,406	167	<20	4.15	1.90	4.96	11.01	11,010	9.307
96.34	11/1/05	9.57	86.77	<5.0	15.8	172	564	752	41.0	13.4	0.885	0.264	1.37	2.519	2,519	7.832
	1/25/06	9,10	87.24	<10.0	23.3	390	1,029	1,442	45.4	51.8	2.24	0.969	2.17	5.379	5,379	8.590
1	1/25/06D	NA	NA	<10.0	14.7	363	962	1,340	57.1	50.2	2.22	1.04	2.12	5.38	5,380	8.590
						130	352	495	30.3	<5.0	0.944	0.512	0.985	2,441	2,441	7.800
	4/10/06	11.05	85.29	<5.0	12.6					<5.0	0.095	0.049	0.985	0.2352	235	5.460
	7/20/06	11.40	84.94	<5.0	<5.0	<5.0	<15	ND	<5.0	<5.0				•	112	4.715
· ·	7/20/06D	NA	NA	<5.0	<5.0	<5.0	<15	ND	<5.0	•	< 0.075	0.045	0.067	0.1116		
	10/10/06	11.89	84.45		6.4	123	286	415			0.380	0.089	0.183	0.6523	652	6.481
	1/25/07	10.99	85.35	<5.0	. 7.5	172	568.1	748	40.9	128.0	0.653	0.385	. 1.570	2.608	2,608	7.866
	4/24/07	9.35	86.99	<5.0	<5.0	91	83.2	174	14.7	40.6	0.152	0.109	0.297	0.558	558	6.324
	10/4/07	12.46	83.88	<5.0	<5.0	<5.0	<10.0	ND	<5.0	24.8	0.194	0.0621	0.0638	0.3199	320	5.768
	3/11/08	9.43	86.91	<25	<25	545	2,054	2,599	111.0	376.0	2.38	1.16	2.91	6.45	6,450	8.771835
	5/1/08	10.16	86.18	<25.0	62.5		2,789	3,424		39.5	3.37	2.14	3.71	. 9.22	9,220	9.129130
ECS-7	2/13/03	10.14	. 85.83	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	4		
95.97	9/8/05	9.75	85.79	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	4		
. 95.54	1/25/06	9.05	86.49	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	4/10/06	9.90	85.64	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	7/20/06	9.78	85.76	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	1		
	10/10/06	9,96	85.58	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	1		
I	4/24/07	9.47	86.07	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	1		
	10/4/07	10.41	85.13	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	3/11/08	9.24	86.30	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	5/1/08	9.62	85.92	NS	. NS	NS	NS	NA	NS	NS	NS	NS	NS	.]		
ECS-8	2/13/03	11.63	84.09	<5.0	160	1,100	4,400	5,660	120	40	3.6 <0.075	3.7	3.4			
95.72	9/8/05	10.35	85.08	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
95.43	9/8/05D	NG	NA	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	1/25/06	NG	NA	NS	NS	NS	NS	NĄ	NS	NS	NS	NS	NS			
I	4/11/06	9.98	85.45	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	7/20/06	10.28	85.15	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
1	10/10/06	10.81	84.62	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
· · · · · · · · · · · · · · · · · · ·	4/24/07	8.19	87.24	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	1		
l· ·	10/4/07	11.45	83.98	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	1		
	3/11/08	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	1		
1	3/24/08	8.56	86.87	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	1		
	5/1/08		86.41	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	1		
	AN A STRATE MALANTS WATER	9.02	. 00,41	-0.0	-0.0	-0.0	-10		PVC in feet.					1		
	to water in feet f													ł		
$\pi = \text{reet. } \mu g/L =$	micrograms per	iller. mg/L ≠ i	millograms per lit	er.					plicable/available.		on 9/20/05 8 0/	105		1		

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05

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ft = feet, µg/L = micrograms per liter, mg/L = millograms per liter. MCP Method 1 Standards as set forth by 310 CMR 40.0974(2) revised on Feburary 14, 2008.

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Shading indicates value or detection limit exceeds GW-2 standard. Bolding indicates value or detection limit exceeds GW-3 standard.

D = Duplicate sample.

	730 E	il/Mobil Sta ast Street Aassachuse							le 3 (3 of 4) onitoring Da	ta				
Monitoring Well & Elevation (ft)	Sampling Date	Depth to Water (ft)	Ground- water Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyi- benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthale ne (µg/L)	MtBE (µg/L)	C <sub>5</sub> - C <sub>5</sub> Aliphatics (mg/L)	Cp - C <sub>12</sub> Aliphạtics (mg/L)	C <sub>0</sub> - C <sub>10</sub> Aromatics (mg/L)	Sum VPH
*Revised MC	P Method 1	Standards	GW-2: GW-3:	2,000 10,000	50,000 40,000	20,000 5,000	9,000 5,000	NA NA	1,000 20,000	50,000 50,000	3.0 50.0	5.0 50.0	7.0 50.0	mg/L
ECS-9	2/13/03	10.82		<5.0	<5.0	<5.0	85	85	<5.0		0.540	0.240	0.300	1.080
95.22	9/19/05	10.91	84.08	9.6	6.7	60.7	730	807	40.2	831	0.652	0.611	1.41	2.673
94.99	1/25/06	8.38	. 86.61	<10	12.7	57.9	568	639	26.6	1,090	0.660	0.429	1.11	2.199
	4/11/06	10.33	84.66	<25	<25	98.3	915	1013	47.3	3,970	1.73	0.770	1.53	4.030
	7/20/06	10.72	84.27	<25	<25	51.5	626	678	51.9	1,980	0.913	0.970	1.24	3.123
	10/10/06	11.12	83.87	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	0.000
	1/25/07	10.31	84.68	<10	<10	28.5	336	365	28.8	1,370	0.356	0.522	0.949	1.827
	4/24/07	8.57	86.42	<5.0	5.3	12.6	145	163	15.1	1,540	<0.075	0.262	0.571	0.833
	10/4/07	11.79	83.20	<50	<50	<50	<100	ND	<50	4,260	<0.75	0.399	1.290	1.689
**** * ** *** *******	3/11/08	8.63	86.36	5.6	<5.0	<5.0	38.7	44	11.6	666	<0.075	0.140	0.400	0.540
	5/1/08	9.47	85.52	<5.0	12.7	<5.0	31.9	45	5.0	335	<0.075	0.0523	0.0995	0.152
ECS-10	2/13/03	10.11	85.79	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.062
95.90	9/8/05	9.59	86.16	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.062
95.75	1/25/06	8.57	87.18	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.062
	4/10/06	9.52	86.23	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.062
* • • • • • • • • • • • • • • • • • • •	7/20/06	9.42	86.33	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	10/10/06	9.64	86.11	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	<u> </u>
*****	4/24/07	8.53	87.22	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	10/4/07	10.18	85.57	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.062
	3/11/08	5.74	90.01	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.062
	5/1/08	8.87	86.88	<5.0	<5.0	; <5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	]
VOTES: Dept	C <sup>1</sup> milialauminum Citikiniii							Elevation	of PVC in feet.					]
			mg/L = millograms	per liter.				NA = Not a	ipplicable/ava	ilable.				
			by 310 CMR 40.09											
			nit exceeds GW-2 :											
Rolding indicat	es value or	detection lim	it exceeds GW-3 s	tandard.										

-	730 E	il/Mobil Stat ast Street Nassachuse							le 3 (3 of 4) onitoring Da	ta				
Monitoring Well & Elevation (ft)	Sampling Date	Depth to Water (ft)	Ground- water Elevation (ft)	Benzene (µg/Ľ)	Toluene (ug/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthale ne (µg/L)	MtBE (µg/L)	C <sub>5</sub> - C <sub>8</sub> Aliphatics (mg/L)	C <sub>0</sub> - C <sub>12</sub> Allphatics (mg/L)	C <sub>9</sub> - C <sub>10</sub> Aromatics (mg/L)	Sum
Revised MCI	P Method 1	Standards	GW-2:	2,000	50,000	20,000	9,000	NA	1,000	50,000	3.0	5.0	7.0	mg/L
		;	GW-3:	10,000	40,000	5,000	5,000	NA	20,000	50,000	50.0	50.0	50.0	4
ECS-11	1/25/06	9.28	87.42	18.0	<10	<10	<30	18.0	12.5	1,040	1.08	0.056	0.059	
96.70	4/10/06	10.94	85.76	<5.0	<5.0	<5.0	<10.0	ND	<5.0	277	0.226	<0.025	0.029	1
	7/20/06	11.31	85.39	<5.0	<5.0	<5.0	<10.0	ND	<5.0	243	0.164	<0.025	0.025	1
**** * ** ** ***	10/10/06	11.81	84.89	<5.0	<5.0	<5.0	<10.0	ND	<5.0	598	0.261	0.047	0.077	1
	1/25/07	10.98	85.72	<5.0	<5.0	<5.0	<10.0	ND	<5.0	359	0.133	<0.025	0.041	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4/24/07	9.35	87.35	5.8	5,1	<5.0	<10.0	10.9	<5.0	628	0.369	<0.025	0.026	
	10/4/07	12.47	84.23	5	<5.0	<5.0	<10.0	5.0	<5.0	207	0.899	0.124	0.072	1
	3/11/08	9.36	87.34	14.5	<5.0	<5.0	<10.0	14.5	6.9	387	0.982	0.029	0.093	1
	5/1/08	10.28	86.42	<5.0	5.7	<5.0	<10.0	5.7	13.0	81.4	0.639	0.0685	0.0669	
ECS-12	1/25/06	8.64	87.51	47.0	54.0	1,960	9,690	11,751	399	<20	14.1	6.04	13.6	
96.15	4/10/06	10.60	85.55	<10	37.3	86.6	437	561	98.9	20.9	5.94	6.69	12.9	
	7/20/06	10.95	85.20	<10	32.4	19.9	59	111	53.9	14.7	3.38	4.39	6.60	·
	10/10/06	11.42	84.73	<10	33.7	53.0	270	357	69.3	32.2	2.72	3.07	6.17	
	10/10/06D	NA	NA	<10	70.9	53.9	288	412	102	45.9	4.14	3.21	7.13	·
	1/25/07	12.55	83.60	<5.0	50	29.8	149.6	229	63.8	17.1	3.22	2.07	3.82	
	1/25/07D	12.55	83.60	<25	40.3	30	. 147	217	64.5	<25.0	3.03	2.14	4.10	1
	4/24/07	8.83	87.32	<10	56.2	18.8	29.7	105	74.6	<10	3.95	1.20	4.31	1
*****	4/24/07D	8.83	87.32	<5.0	33.3	11.7	17.5	62.5	54.5	<5.0	2.06	1.46	2.88	
	10/4/07	12.04	84.11	5.7	<5.0	12.2	30.3	48.2	54	<5.0	2.88	1.44	3.44	1
• •••• • • • •	10/4/07D	12.04	84.11	<5.0	<5.0	10.7	29.9	40.6	46.9	<5.0	2.21	1.10	2.74	
	3/11/08	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	3/24/08	9.15	87.00	<10	<10	17.1	67.9	85.0	60	<10	2.20	1.76	1.95	1
	3/24/08D	9,15	87.00	<10	<10	24.5	78.7	103.2	76	<10	2.39	2.33	2.68	
	5/1/08	9.71	86.44	<25.0	<25.0	43.7	151.3	195.0	96.9	<25.0	2.47	1.58	4.48	
	5/1/08D	9.71	86.44	<25.0	<25.0	29.4	66.5	95.9	87.4	<25.0	2.48	1.48	4.48	1
OTES: Depth	to water in	feet from PV	/C.					Elevation of	PVC in feet.					
• •	-	•	ng/L = millograms					NA = Not a	pplicable/avai	lable.				1
			y 310 CMR 40.097	••										1
Shading indicat	es value or	detection lim	it exceeds GW-2 s	landard.										1

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	730 Eas	Mobil Statio t Street issachusetts							(4 of 4) oring Data				
Monitoring Well & Elevation (ft)	Sampling Date	Depth to Water (ft)	Ground- water Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphtha- Iene (µg/L)	MtBE (µg/L)	C <sub>5</sub> - C <sub>8</sub> Aliphatics (mg/L)	C <sub>9</sub> - C <sub>12</sub> Aliphatics (mg/L)	C <sub>2</sub> - C <sub>10</sub> Aromatics (mg/L)
	CP Method	1 Standards	GW-2: GW-3:	2,000 10,000	50,000 40,000	20,000 5,000	9,000 5,000	NA NA	1,000 20,000	50,000 50,000	3.0 50.0	5.0 50.0	7.0 50.0
ECS-13	1/25/06	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
97.66	4/10/06	12.20	85.46	77.8	9,600	4,780	22,430	36,888	566	342	28.9	5.66	11.0
	7/20/06	12.53	85.13	<5.0	9.2	223	753	985	36.5	<5.0	0.727	0.454	0.809
***********	10/10/06	13.01	84.65	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025
	1/25/07	12.18	85.48	<5.0	<5.0	<5.0	<10	ND	<5.0	36.3	<0.075	<0.025	<0.025
•• • • • • •	4/24/07	10.51	87.15	<5.0	<5.0	<5.0	<10	ND	<5.0		<0.075	<0.025	<0.025
	10/4/07	13.64	84.02	<5.0	11.1	451	206.3	668	33.0	<5.0	0.598	0.434	1.29
	3/11/08	10.80	86.86	<5.0	<5.0	266	22.9	289	11.4	<5.0	0.50	0.345	0.704
••••••••••	5/1/08	11.28	86.38	<50.0	178.0	2,470	6,044	8,692	371	<50	6.00	2.35	7.54
ECS-14	4/10/06	10.00	86.25	<5.0	11.7	<5.0	<15	12	15.2	<5.0	1.22	0.278	0.328
96.25	7/20/06	10.31	85.94	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
•••••	10/10/06	10.79	85.46	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	1/25/07	9.87	86.38	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	4/24/07	8.51	87.74	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
••••••••••••	10/4/07	11.35	84.90	7.2	5.0	<5.0	42.8	55	57.6	<5.0	2.32	0.710	1.22
	3/11/08	8.80	87.45	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	5/1/08	9.19	87.06	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
ECS-15	4/10/06	10.47	85.98	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	0.307	<0.025	0.032
96.45	7/20/06	10.72	85.73	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
daar	10/10/06	11.23	85.22	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	1/25/07	10.37	86.08	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	4/24/07	8.93	87.52	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	10/4/07	11.91	84.54	<5.0	<5.0	<5.0	<10	ND	<5.0	52.7	<0.075	<0.025	<0.025
	3/11/08	9.92	86.53	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	5/1/08	9.76	86.69	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS

NA = Not applicable/available.

ft = feet. µg/L = micrograms per liter. mg/L = millograms per liter.

\*MCP Method 1 Standards as set forth by 310 CMR 40.0974(2) revised on Feburary 14, 2008.

Shading indicates value or detection limit exceeds GW-2 standard.

Boiding Indicates value or detection limit exceeds GW-3 standard.

D = Duplicate sample.

O'Connell Mobil 730 East Street Pittsfield, Massachusetts		Table 4         Quality Assurance/Quality Control (QA/QC) Samples (MADEP VPH Method Revision 1.1)         Results/Method Detection Limits 1										
Sample Location	ECS-12	ECS-12D		ТВ	Groundwater	- Standards <sup>2</sup>						
Sampling Date	5/1/08	5/1/058	RPD (%)	5/1/08	GW-2	GW-3						
/PH (mg/L)		1	L									
C5-C8 Aliphatics	2.47	2.48	0.4	<0.075	3	50						
C9-C12 Aliphatics	1.58	1.48	6.5	<0.025	5	50						
C9-C10 Aromatics	4.48	4.48	0.0	<0.025	7	50						
argeted VPH Analytes (µg/L)												
Benzene	<25	<25	NA	<5.0	2,000	10,000						
Ethylbenzene	43.7	29.4	39.1	<5.0	20,000	5,000						
Methyl-tert-butyl ether	<25	<25	NA	<5.0	50,000	50,000						
Naphthalene	96.9	87.4	10.3	<5.0	1,000	20,000						
Toluene	<25	<25	NA	<5.0	50,000	40,000						
m,p-°Xylenes	<i>`</i> 117.0	66.5	<b>*</b> 55.0	<10.0	9,000 <sup>3</sup>	5,000 <sup>3</sup>						
o-Xylene	34.3	<25	NA	<5.0	9,000	5,000						

Shaded indicates concentration exceeds GW-2 standard; bold indicates concentration exceeds GW-3 standard.

<sup>1</sup>Milligrams per liter (mg/L) or micrograms per liter ( $\mu$ g/L) as noted.

<sup>2</sup>MCP Method 1 Groundwater Standards from Table 1, 310 CMR 40.0974(2). Revised 2/14/08

<sup>3</sup>Standards for total xylenes.

O'Connell Oil Associates
730 East Street
Pittsfield, Massachusetts

Table 5 Decay Rates based on Steady-State Analytical Solution

	Seepage	Retardation	Contaminant	Dispersivity	Attenuation	Decay rate	% Biodecay
	Velocity	Coefficient	Velocity	α	Rate (k)	λ	λ/k
	ft/day	R	ft/day	ft	%/day	%/day	%
2005 - 2007	0.344	5.75	0.06	9.65	1.85	0.44	24

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# Appendix F

Soil Boring/ Well Installation Logs

Drill Drill Drill Aug Rig	Date Start/Finish: 11/25/08 Drilling Company: Parratt Wolff Driller's Name: Joel Runscher Drilling Method: HSA Auger Size: 7" Rig Type: HSA Sampling Method: 2" x 2' SS								East Cas Bore Surf	Easting: 132799.7 Casing Elevation: 1023.47 Client: Gen			<b>g ID: A7-R</b> neral Electric Pittsfield, MA				
рертн	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description							/Boring truction	
-	-		0-2	NA	NA	NA	0.0 PPM	1-000000000000000000000000000000000000	Solid cement		bebbles, trace granules 2-	-3cm, mc	pist	000000		Concrete Si Pad. Filpro Type Silica Sand to 1.0' bgs)	#1 I (0.8'
-	-		2-4	NA	NA	NA	0.0 PPM									<ul> <li>Hydrated Bentonite C (1' to 3' bgs</li> <li>2-in ID Scha 40 PVC Ris (0.6' to 5.05</li> <li>Filpro Type Silica Sand 4' bgs)</li> </ul>	edule ser 5' bgs) # #00
-5	- 1020	1	4-6	11"	5, 8, 5, 4	NA	0.0 PPM	<u> </u>	Med. brown, wet, loose	silty MF. (+) sub ang	gular SAND, few L. pebbl	les, trace	C. pebbles,				
-	_	2	6-8	5"	5, 6, 9, 13	NA	0.0 PPM	EREFEREFE EFEFEFEFEFEFEFEFEFEFEFEFEFEFEF	trace sub rou	t. Gray, Silty M- F(+) s inded large pebbles, s ir level BMP 11/26/08	sub angular SAND, few a stone blocking tip (quartzi	angular fii cite), mois	ne pebbles, st, loose				
	-	3	8-10		4, 4, 6, 19	NA	0.0 PPM	HHHHHHHHHH HHHHHHHHHHHHH	5-6", wet-sat	rown, Silty M-F. subar urated, loose. wood, wet, 4cm VL. p	ngular-subrounded SAND ebble stuck in tip.	D, trace L	. pebbles @				
- 10	-	4	10-12	10"	18, 49, 40, 53	NA	0.0 PPM		subrounded 4-6"; same a 6-10"; Med G	SAND, trace L. pebble s 6-11" from 8'-10' co	ub rounded GRAVEL(peb	-				Filpro Type Silica Sand 17.3' bgs) 2-in ID Sch 40 PVC 0.0 Slotted Scre	l (4' to edule )10"
-	-	5	12-14	22"	34, 35, 37, 31	NA	0.0 PPM		wood and pla 4"-22"; Med. plasticity. stif	astic brown, fc. (pebbles f - Med. Dense	e, saturated, looks to con ) Gravely SILT, some vf. :					(5.05' to 17. bgs)	
Proje Data	Infra	astruo mber	cture,			t, facili Te	emplate		v 11\Rockw	/are\LogPlot 200	MP) Elevation: 1024.08 1\LogFiles\Template			s\well HSA	\ 2007.da	t Page: 1 of 2	

Date Start/Finish: 11/25/08 Drilling Company: Parratt Wolff Driller's Name: Joel Runscher Drilling Method: HSA Auger Size: 7" Rig Type: HSA Sampling Method: 2" x 2' SS						er			Northing: 534995.6 Easting: 132799.7 Casing Elevation: 1023.47 Borehole Depth: 17.5' bgs Surface Elevation: D.ZUCK Descriptions By: Dan Zuck	Well/Boring ID: A7-R Client: General Electric Location: Pittsfield, MA			
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction			
- 15	- 1010 = - - -	7	14-16 16-16. 7.5-18	4 4"	(11, 31, 51, 50/4) REF. REF.	NA NA NA	0.0 PPM 0.0 PPM 0.0 PPM 0.0 PPM		med. dense 16"-21"; SAA, Except color is white with yellow tint 0-4"; No positive recovery, slough	"; Reddish Brown, vf. SAND, few silts, trace C. sub angular sand, wet, dense 21"; SAA, Except color is white with yellow tint No positive recovery, slough White, vf. sub angular SAND, some white Sandstone fragments 1cm			

