

GE 159 Plastics Avenue Pittsfield, MA 01201 USA

### Transmitted via Overnight Courier

August 29, 2008

Mr. Richard Hull 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 3 (GECD330)

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

Dear Mr. Hull:

Enclosed is a report entitled *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008* (Spring 2008 GMA 3 Report). This report summarizes activities performed at Groundwater Management Area (GMA) 3 (also known as the Plant Site 2 GMA) between January and June 2008, including the results of the spring 2008 round of sampling and analysis of groundwater for GMA 3 and the results of GE's non-aqueous phase liquid (NAPL) monitoring and recovery program in this area. In addition, certain modifications to the interim monitoring program at GMA 3 are proposed to address recent modifications made by MDEP to the Method 1 groundwater quality standards.

Please contact me if you have any questions or comments.

Richard W. Sates D3 for

Sincerely.

Richard W. Gates

Remediation Project Manager

Enclosure

cc: Dean Tagliaferro, EPA
Tim Conway, EPA (cover letter only)
Holly Inglis, EPA (CD-ROM)
Rose Howell, EPA (cover letter only)
K.C. Mitkevicius, USACE (CD-ROM)
Linda Palmieri, Weston (2 hard copies & CD-ROM)
Anna Symington, MDEP (cover letter only)
Jane Rothchild, MDEP (cover letter only)
Michael J. Gorski, MDEP (2 copies)
Thomas Angus, MDEP (cover letter only)
Mayor James Ruberto, City of Pittsfield
Nancy E. Harper, MA AG
Dale Young, MA EOEA
Michael Carroll, GE (cover letter only)

Rod McLaren, GE (cover letter only)
Mark Harkness, GE Global Research
Andrew Hogeland, SABIC Innovative Plastics
Steven Deloye, GE Corporate Properties and
Services Operations
Jeff Gardner, Berkshire Community College
Kevin Boland, CSX Transportation
Cheryl Grosso, United States Navy
James Nuss, ARCADIS
James Bieke, Goodwin Procter
John Ciampa, SPECTRA
Public Information Repositories
GE Internal Repositories



**General Electric Company Pittsfield, Massachusetts** 

Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

August 2008

Groundwater Management Area 3 – Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

Prepared for:

General Electric Company

Prepared by: ARCADIS 6723 Towpath Road P.O. Box 66 Syracuse New York 13214-0066 Tel 315.446.9120 Fax 315.449.0017

Our Ref.: B0020186

Date:

August 2008

ARCADIS Table of Contents

1.	Introdu	ıction		1	
	1.1	Genera	al	1	
	1.2	Backgı	round Information	3	
		1.2.1	GMA Description	3	
		1.2.2	Interim Monitoring Program	5	
		1.2.3	NAPL Monitoring Program	6	
		1.2.4	Format of Document	6	
2.	Field a	nd Ana	lytical Procedures	7	
	2.1	Genera	al	7	
	2.2	Ground	dwater Elevation Monitoring	7	
	2.3	LNAPL	Monitoring and Recovery	8	
	2.4	Ground	dwater Sampling and Analysis	g	
3.	Groun	dwater	Analytical Results	11	
	3.1	General			
	3.2	Ground	dwater Quality Results	11	
		3.2.1	VOC Results	11	
		3.2.2	PCB Results	11	
		3.2.3	SVOC Results	12	
		3.2.4	Natural Attenuation Monitoring Results	12	
4.	Assess	sment o	of Results	13	
	4.1	Genera	al	13	
	4.2	Performance Standards		13	
		4.2.1	Groundwater Quality Performance Standards	13	
		4.2.2	NAPL-Related Performance Standards	15	
		4.2.3	Manual NAPL Removal Criteria	16	
		4.2.4	Assessment of New NAPL Observations	17	
		4.2.5	Criteria for Installation of Automated Recovery Systems	18	
	4.3	Groundwater Quality – Spring 2008			
		4.3.1	Groundwater Results Relative to GW-2 Performance Standards	20	

ARCADIS Table of Contents

		4.3.2 Groundwater Results Relative to GW-3 Performance Standards	21
		4.3.3 Groundwater Results Relative to Upper Concentration Limits	21
	4.4	Natural Attenuation Monitoring Results	22
	4.5	Overall Assessment of Analytical Results	23
	4.6	Evaluation of NAPL Monitoring and Recovery Activities	24
		4.6.1 Extent of NAPL	24
		4.6.2 NAPL Recovery	25
5.	Propos	sed Groundwater and NAPL Monitoring Program Modifications	26
	5.1	General	26
	5.2	Evaluation and Proposed Modifications to Interim Monitoring Program	26
	5.3	NAPL Monitoring Program Modifications	29
6.	Schedu	ule of Future Activities	30
	6.1	General	30
	6.2	Field Activities Schedule	30
	6.3	Reporting Schedule	31
Та	bles		
	1	Groundwater Quaity Monitoring Program Summary	
	2	Groundwater Elevation/NAPL Monitoring Program Summary	
	3	Monitoring Well Construction Summary	
	4	Groundwater Elevation Data – Spring 2008	
	5	LNAPL Monitoring/Manual Recovery Data Summary	
	6	Automated LNAPL Recovery System Summary	
	7	Field Parameter Measurements – Spring 2008	
	8	Comparison of Groundwater Analytical Results to MCP Method 1 GW-2 St	andards
	9 Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standa		
	10 Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater		
	11	Natural Attenuation Parameter Analytical Results	
	12	Proposed Interim Groundwater Quality Monitoring Program	

ARCADIS Table of Contents

### **Figures**

- 1 Groundwater Management Areas
- 2 Site Plan
- 3 Generalized Geologic Cross Section A-A'
- 4 Generalized Geologic Cross Section B-B'
- 5 Groundwater Elevation Contour Map Spring 2008
- 6 Historical Extent of NAPL
- 7 Extent of NAPL Spring 2008 Monitoring Event
- 8 Proposed Interim Groundwater Quality Monitoring Program

### **Appendices**

- A Groundwater Elevation and NAPL Monitoring / Recovery Data
- B Comparison of Quarterly LNAPL Recovery Volumes to Average Groundwater Elevations
- C Field Sampling Data
- D Data Validation Report
- E Spring 2008 Groundwater Analytical Results
- F Historical Groundwater Data

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

### 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 soils, 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 areas at and near the GE Pittsfield facility have been divided into five 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 2 GMA, also known and referred to herein as GMA 3.

On April 24, 2001, GE submitted a *Baseline Monitoring Program Proposal for Plant Site 2 Groundwater Management Area* (GMA 3 Baseline Monitoring Proposal). The GMA 3 Baseline Monitoring Proposal summarized the hydrogeologic information available at that time for GMA 3 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 3 Baseline Monitoring Proposal by letter of November 21, 2001. Thereafter, certain modifications were made to the GMA 3 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.

Following performance of a limited baseline sampling event in spring 2002, the remainder of the 2002 and 2003 sampling rounds were deferred (with EPA approval) because certain property access issues could not be resolved prior to the scheduled performance of those sampling events. However, GE continued to perform NAPL and groundwater elevation monitoring on an interim basis at all locations for which access was available and collected groundwater samples from one well (78B-R) on a semi-annual basis for analysis of volatile organic compounds (VOCs) and, until fall 2003, PCBs.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

The final property access issues were resolved in February 2004, and, beginning with the spring 2004 sampling event, GE commenced the full semi-annual baseline groundwater quality sampling program at GMA 3. The baseline monitoring program consisted of four semi-annual groundwater quality sampling events (with annual sampling conducted at select wells), quarterly groundwater elevation monitoring, and NAPL monitoring and recovery activities, followed by preparation and submittal of semi-annual reports summarizing the groundwater/NAPL monitoring results, comparing the groundwater results with applicable Performance Standards, and, as appropriate, proposing modifications to the monitoring program. The full monitoring program included sampling and analysis of PCBs, certain non-PCB constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenyhydrazine (Appendix IX+3), and/or certain constituents (i.e., natural attenuation parameters) to assess intrinsic and natural processes that may be influencing VOC concentrations in groundwater. The fourth baseline monitoring report for GMA 3, titled Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Fall 2005 (Fall 2005 GMA 3 Monitoring Report), was submitted to EPA on February 26, 2006.

Section 6.1.3 of Attachment H to the SOW provides that if the two-year baseline period ends prior to the completion of soil-related response actions at all the RAAs within 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 3 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.

Therefore, as the soil-related Removal Actions at the Unkamet Brook Area RAA within GMA 3 were not yet complete, the Fall 2005 GMA 3 Monitoring Report contained such a proposal to modify and extend baseline groundwater quality monitoring activities at GMA 3 (under a program referred to as the interim monitoring program) until such time as the soil-related Removal Actions at the Unkamet Brook Area RAA are completed and the specific components of a long-term groundwater quality monitoring program are determined. EPA conditionally approved the Fall 2005 GMA 3 Monitoring Report by letter dated May 2, 2006 and GE implemented the approved interim monitoring program during the spring 2006 sampling event, which also involved the collection of groundwater samples from certain wells that did not yet have four complete rounds of sampling as part of the baseline monitoring program. Thereafter, certain modifications were made to the GMA 3 interim monitoring program as a result of EPA approval conditions, revisions to the Massachusetts Contingency Plan (MCP) Method 1 groundwater standards, and/or GE's evaluations of results of activities performed during implementation of the interim monitoring program. GE will continue the approved groundwater and NAPL monitoring program until the completion

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

of the soil-related Removal Actions at the Unkamet Brook Area RAA. After those soil-related Removal Actions are completed, GE will submit a final baseline monitoring report, including a proposal concerning long-term groundwater quality and NAPL monitoring at GMA 3.

As part of the interim monitoring program for GMA 3, GE is required to submit reports on a semi-annual basis to summarize the groundwater/NAPL monitoring results and related activities and, as appropriate, to propose modifications to the monitoring program. GE's *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Fall 2007* (Fall 2007 GMA 3 Monitoring Report) presented the results of the 2007 annual interim groundwater quality sampling event and the semi-annual groundwater elevation and NAPL monitoring activities performed at this GMA during October and November 2007, as well as other routine groundwater elevation and NAPL monitoring/recovery activities performed between July and December 2007. That report also summarized the results of building inspections and subsurface soil gas and indoor air monitoring conducted beneath and within Buildings 51 and 59. The Fall 2007 GMA 3 Monitoring Report was conditionally approved by EPA by letter dated April 23, 2008.

The results of groundwater sampling activities performed at GMA 3 during May 2008, as well as other routine groundwater elevation and NAPL monitoring/recovery activities performed at this GMA between January and June 2008 (henceforth referred to as Spring 2008) are provided in this *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008* (Spring 2008 GMA 3 Monitoring Report).

The current GMA 3 groundwater sampling program is summarized in Table 1, while the groundwater elevation/NAPL monitoring program is summarized in Table 2. The locations of the monitoring wells utilized in spring 2008 are provided on Figure 2.

### 1.2 Background Information

### 1.2.1 GMA Description

GMA 3 encompasses the portion of the Unkamet Brook Area (as defined in the CD and SOW) located to the east of Plastics Avenue, and occupies an area of approximately 103 acres (as shown on Figures 1 and 2). This area includes the eastern portion of GE's Pittsfield facility, which is generally bounded by Dalton Avenue to the north, Merrill Road to the south, Plastics Avenue to the west, and railroad tracks to the east. GMA 3 also contains commercial/recreational properties located between Merrill Road and the Housatonic River to the southeast of the facility. Unkamet Brook extends from northwest to southeast through the interior of this GMA, although a portion of the brook in the center of the area flows through underground culverts. The GE-owned portion of this GMA located

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

west of Unkamet Brook is mostly paved and covered with large buildings. The GE-owned portion to the east of Unkamet Brook, as well as much of the land between Merrill Road and the Housatonic River, is undeveloped except for the area associated with Building OP-3 and the commercial area along Merrill Road.

Several well pairs or closely-spaced shallow and deep well clusters have been installed within GMA 3. The approximate depth of a well in a cluster can be identified by the letter contained in the well name (e.g., cluster 39 contains wells 39A, 39B-R, 39D-R, and 39E) which represents the well series, specifically:

- A-series wells are generally screened approximately 45 to 50 feet below ground surface (bgs);
- B-series wells are generally screened at or near the water table, approximately 15 to 25 feet bgs;
- C-series wells are generally screened approximately 95 to 100 feet bgs;
- D-series wells are generally screened approximately 70 to 75 feet bgs; and
- E-series wells are generally screened at depths greater than 150 feet bgs.

Most of the GMA 3 well clusters consist of an A-series well paired with a B-series well, and sometimes one or more of the deeper series wells. In addition, there are individual wells installed at the RAA which were completed based on proposals by GE or in response to EPA requirements. The specifications of the wells monitored at GMA 3 in spring 2008 are listed in Table 3. Prior monitoring data from the well clusters has indicated that the vertical component of the hydraulic gradient is variable at GMA 3. In general, groundwater flows downward in the northern part of the GMA, moves laterally across the central areas, and rises to the south, near the Housatonic River.

Groundwater at GMA 3 generally flows in a southeasterly direction toward the Housatonic River, usually with a pattern that mimics the existing topography. However, localized variations in the flow direction exist due to fill materials used beneath building foundations in the GE Plastics area and the presence of Unkamet Brook. The subsurface conditions across GMA 3 are illustrated on cross-sections A-A' and B-B', presented as Figures 3 and 4, respectively. The locations of these cross-sections are provided on Figure 2. Figure 5 illustrates groundwater elevations and flow direction using data collected during the spring 2008 monitoring round. The horizontal hydraulic gradients are somewhat variable within GMA 3, but generally decrease toward the Housatonic River, corresponding to a flattening in the ground surface topography.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

The presence of NAPL in this area has been documented in prior GE reports. NAPL has been observed near Building 59 in coarse gravel that was assumed to be fill material for the foundation of that building. NAPL also has been observed in the vicinity of Building 51. That NAPL may have originated from underground storage tanks located on the northeast side of that building. Previous investigations have identified the NAPL as a light non-aqueous phase liquid (LNAPL) in the soil at and above the groundwater table interface. The LNAPL observed east of Building 51 has been analyzed and determined to be composed of multiple constituents, including PCBs, polynuclear aromatic hydrocarbons (PAHs), ethylbenzene, xylenes, 1,2,4-trichlorobenzene, and 1,4-dichlorobenzene, among other constituents.

Distribution of the LNAPL has been confined to the vicinity of Buildings 51 and 59, along the western boundary of the GMA, due primarily to: (a) the generally low hydraulic gradients in this area; (b) the difference in grain size between the coarse fill materials near and beneath the buildings and the grain size of the surrounding native soils; (c) an apparent groundwater mound present between Buildings 59 and 119, to the south of the NAPL area; and (d) the ongoing LNAPL recovery efforts (both automated and manual) conducted by GE. Prior to spring 2007, dense non-aqueous phase liquid (DNAPL) had not been encountered within any of the monitoring wells within GMA 3. However, DNAPL was observed on one occasion in a single monitoring well located to the south of the former interior landfill. Locations where NAPL has been previously documented are shown on Figure 6. The extent of NAPL observed in spring 2008 is illustrated on Figure 7. A discussion of the current extent of NAPL and the results of NAPL monitoring and recovery activities is provided in Section 3.3.

### 1.2.2 Interim Monitoring Program

As discussed in Section 1.1, the CD and the SOW provide the framework for the performance of groundwater-related activities at a number of 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. The baseline monitoring program was to be initiated at GMA 3 in the spring of 2002, but, as discussed above, access issues prevented performance of the full baseline monitoring program until spring 2004. The fall 2005 sampling event constituted the fourth baseline sampling event at the majority of the wells in GMA 3. The baseline sampling program was concluded at the remaining wells with the spring 2006 sampling event.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

Beginning in spring 2006, as approved by EPA, an interim groundwater quality monitoring program was initiated, consisting of annual sampling (in the spring season) for the analysis of VOCs and natural attenuation parameters at 22 monitoring wells, plus annual sampling (alternating between the spring and fall seasons) for the analysis of VOCs at one additional well. Since the spring 2006 groundwater sampling event, GE has presented the results of each sampling event in interim groundwater quality and NAPL 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 1 of EPA's April 23, 2008 conditional approval letter, this report discusses the revised standards, evaluates their implications on the interim groundwater quality monitoring program, and proposes further modifications to that program in response to those new standards.

### 1.2.3 NAPL Monitoring Program

In addition to the wells that were sampled during the baseline monitoring period (each of which continues to be monitored for groundwater elevations on a semi-annual basis during the interim monitoring period), 27 monitoring wells are routinely monitored for groundwater elevation and the presence of NAPL on an established weekly, monthly, quarterly, or semi-annual schedule, as summarized in Table 2. The well locations are shown on Figure 2.

#### 1.2.4 Format of Document

The remainder of this report is presented in five sections. Section 2 describes the groundwater- and NAPL-related activities performed at GMA 3 in spring 2008. Section 3 presents the analytical results obtained during the spring 2008 sampling event performed in April and May 2008. Section 4 provides a summary of the applicable groundwater quality and NAPL-related Performance Standards under the CD and SOW and provides an assessment of the results of the spring 2008 activities, including comparisons to the Performance Standards and the Upper Concentration Limits (UCLs) for groundwater, and an evaluation of the spring 2008 NAPL monitoring/recovery results. Section 5 presents GE's discussion of the implications of new and revised MDEP groundwater quality standards on the interim monitoring program and proposes certain modifications to that program. Finally, Section 6 addresses the schedule for future field and reporting activities related to groundwater quality and NAPL presence at GMA 3.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

### 2. Field and Analytical Procedures

### 2.1 General

The activities conducted at GMA 3 during spring 2008 included measurement of groundwater elevations/NAPL levels, manual and automated removal of LNAPL, and the collection and analysis of groundwater samples at select monitoring wells within GMA 3, as described on Tables 1 and 2, and depicted on Figure 2. This section discusses the field procedures used to conduct those field activities and 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 Groundwater Elevation Monitoring

The spring 2008 semi-annual groundwater elevation monitoring round was performed between April 15 and 16, 2008. This activity involved the collection of groundwater level data at the locations listed in Table 4. Groundwater levels and NAPL thicknesses (where NAPL is present) were measured in accordance with the procedures specified in GE's approved FSP/QAPP. The groundwater elevation data presented in Table 4 from wells screened across or near the water table were used to prepare a groundwater elevation contour map for spring 2008 (Figure 5). A summary of all groundwater elevation data collected in spring 2008 is provided in Appendix A.

The spring 2008 groundwater elevations were, on average, approximately 0.14 feet lower than the elevations measured during the prior spring monitoring round in 2007 at water table monitoring locations measured during both monitoring events. Consistent with prior data, groundwater was found to generally flow toward the Housatonic River, with some localized variations in the vicinity of Buildings 51 and 59.

As directed by Condition No. 3 of EPA's April 23, 2008 conditional approval letter for the Fall 2007 GMA 3 Report, GE investigated the condition of monitoring wells 51-7, 51-9, 51-13, and 59-1 which were dry during the fall 2007 monitoring event. Three of these monitoring wells (51-7, 51-9 and 59-1) were found to contain water in spring 2008, while monitoring well 51-13 remained dry. An inspection of the four wells was performed during the spring 2008 monitoring event and each monitoring well was found to contain excess sediment build-ups at the base of the well. That sedimentation was above low water table levels typically encountered in the fall, but below the higher spring groundwater levels (with the exception of well 51-13). To address this situation, GE will re-develop each of these wells to remove the excess sediment prior to the fall 2008 monitoring round.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

### 2.3 LNAPL Monitoring and Recovery

This section describes the results of the LNAPL monitoring and recovery activities performed by GE within GMA 3 from January through June 2008, including the April 2008 semi-annual monitoring event and other routine and non-routine monitoring/recovery activities conducted during that period. These activities primarily include the operation of the automated LNAPL recovery systems at wells 51-21 and GMA3-17, the routine measurement of groundwater elevations and NAPL thickness (if present), and the manual removal of NAPL if sufficient thickness is present. All activities were performed in accordance with GE's approved FSP/QAPP.

Approximately three weeks prior to the semi-annual monitoring event, GE performed a bailing round involving the monitoring of all wells where the presence of NAPL was noted during the prior year and manual removal of any NAPL that was present. The purpose of these bailing rounds is to ensure that any NAPL present in a well is also present in the surrounding formation and not remnant oil which may have been trapped in the well since the prior removal event. These bailing round activities provide a consistent basis to compare the current presence and thickness of NAPL between wells that may otherwise be subject to varying NAPL removal schedules.

Routine NAPL monitoring was conducted at the monitoring wells listed in Table 2 on a semi-annual, quarterly, monthly, and/or weekly basis. Table 5 summarizes the overall spring 2008 NAPL monitoring and manual removal data on a well-by-well basis and Table A-1 in Appendix A presents all of the spring 2008 NAPL measurements and removal quantities (when performed) for each well at GMA 3. A month-by-month summary of the LNAPL volume removed by the automated recovery systems in spring 2008 is provided in Table 6. Approximately 31.4 gallons of LNAPL were recovery between January and June 2008 at GMA 3. Approximately 90% of this total was removed by the automated skimmer system at wells 51-21 (12.8 gallons) and the new skimmer system at well GMA 3-17 (14.5 gallons), and the remainder was manually recovered during routine monitoring rounds. Since 1997, approximately 1,449 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program.

DNAPL was observed at monitoring well GMA3-16 during the spring 2007 monitoring event, which was conducted shortly after installation of this well, and approximately 0.01 gallons of DNAPL was manually removed at that time. No DNAPL has been observed in that well, or any other wells within GMA 3, since that initial and isolated observation in well GMA3-16.

Figure 6 depicts the historical maximum extent of NAPL observed at GMA 3. That figure represents a compilation of past investigations and shows the maximum lateral extent of NAPL that has been observed and documented in prior GE reports, and is not indicative of

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

current conditions. Figure 7 indicates the extent of NAPL observed during the semi-annual monitoring event conducted at GMA 3 in spring 2008. As shown on Figures 6 and 7, the northern (upgradient) extent of LNAPL has decreased since the onset of the periodic LNAPL monitoring and recovery activities conducted in this area.

### 2.4 Groundwater Sampling and Analysis

The spring 2008 interim sampling event was performed between April 30, 2008 and May 15, 2008 at 25 monitoring wells, 22 of which were sampled as part of GE's ongoing natural attenuation assessment. Low-flow sampling techniques using either a bladder or peristaltic pump were utilized for the purging and collection of groundwater samples during this sampling event. The specific sampling method utilized, as well as a summary of any observations made during sampling are listed on the field sampling records contained in Appendix C. Field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were measured during purging and immediately prior to sampling at all monitoring wells. Each monitoring well that was sampled was purged until field parameters stabilized prior to sample collection. The stabilized field parameters are summarized in Table 7. A general summary of the stabilized field measurement results recorded during the spring 2008 monitoring event is provided below:

Parameter	Units	Range of Stabilized Readings
Turbidity	Nephelometric turbidity units	0 to 27
рН	pH units	6.29 to 8.57
Specific Conductivity	Millisiemens per centimeter	0.244 to 5.503
Oxidation-Reduction Potential	Millivolts	-264.80 to 136.50
Dissolved Oxygen	Milligrams per liter	0.47 to 6.51
Temperature	Degrees Celsius	6.43 to 14.99

As shown above and in Table 7 for this sampling event, none of the groundwater samples extracted from the monitoring wells had turbidity levels greater than the target level of 50 NTU upon stabilization. These results indicate that the sampling and measurement procedures utilized during this sampling event were effective in obtaining groundwater samples with low turbidity.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

The groundwater samples were submitted to SGS Environmental Services of Wilmington, North Carolina for laboratory analysis. Groundwater samples collected from the interim monitoring locations were submitted for analysis of VOCs using EPA Method 8260B and/or for PCB analysis (filtered samples) using EPA Method 8082. The groundwater quality samples collected from wells sampled for natural attenuation parameters were submitted for analysis of VOCs using Method 8260B, and for the following additional parameters using the associated EPA Methods:

Parameter	EPA Method
Alkalinity (total)	310
Chloride	325
Dissolved Organic Carbon	360
Ethane, Ethene, Methane	8319
Iron	6000
Nitrate Nitrogen	353.1
Nitrite Nitrogen	354.1
Sulfate (turbidimetric)	375

Select natural attenuation samples were also analyzed for two SVOCs that are breakdown byproducts of chlorobenzene (2-chlorophenol and 4-chlorophenol), using EPA Method 8270C.

Following receipt of the analytical data from the laboratory, the preliminary results were reviewed for completeness and compared to the 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 spring 2008 analytical results were validated in accordance with the FSP/QAPP and the validated results were utilized in the preparation of this report. As discussed in the data validation report provided as Appendix D, 99.9% of the spring 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, PCB, and natural attenuation parameter sample results were found to be 100% usable. VOC sample results were found to be 99.9% usable. The only rejected datum was one VOCs sample result from well 16B-R, where the 2-chloroethylvinylether result was rejected due to MS/MSD recovery deviations. The validated analytical results are summarized in Section 3 and discussed in Section 4 below.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

### 3. Groundwater Analytical Results

#### 3.1 General

This section presents a description of the spring 2008 groundwater analytical results. Tables 8 and 9 provide a comparison of the concentrations of detected constituents with the applicable GW-2 and GW-3 groundwater quality Performance Standards established pursuant to the CD and SOW (for wells where those respective standards apply), while Table 10 presents a comparison of the concentrations of detected constituents with the UCLs for groundwater (for all wells sampled in spring 2008). Table 11 provides a summary of the detected VOCs and natural attenuation parameters at the wells monitored for indications of natural attenuation processes. Table E-1 in Appendix E provides the complete analytical data set (constituents detected and not detected) for the groundwater samples analyzed during this sampling event. An assessment of these results relative to those groundwater quality Performance Standards and the UCLs is provided in Section 4.

### 3.2 Groundwater Quality Results

#### 3.2.1 VOC Results

Groundwater samples from 24 monitoring wells were analyzed for VOCs during the spring 2008 sampling event. The VOC analytical results are summarized in Table 10 (for constituents detected in one or more groundwater sample) and Table E-1 within Appendix E (for all constituents analyzed). VOCs were not detected above laboratory detection limits in six of the groundwater samples (from monitoring wells 16C-R, 90A, 90B, 111B-R, 115A, and 115B), while up to 11 individual VOCs were observed in one or more of the remaining 18 samples. The most commonly observed VOCs were chlorobenzene (detected in 14 wells) and benzene (detected in 10 wells). Where detected, total VOC concentrations ranged from an estimated concentration of 0.00015 parts per million (ppm) in natural attenuation monitoring well 111A-R to an estimated concentration of 130 ppm in natural attenuation monitoring well 2A.

### 3.2.2 PCB Results

Filtered groundwater samples from three monitoring wells were analyzed for PCBs as part of the spring 2008 sampling event. The PCB analytical results are summarized in Table E-1 of Appendix E. PCBs were not detected in any of the three groundwater samples.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

#### 3.2.3 SVOC Results

Groundwater samples from six natural attenuation monitoring wells were analyzed for select SVOCs (i.e., 2-chlorophenol and 4-chlorophenol) in spring 2008 using EPA Method 8270C. The SVOC analytical results for the constituents analyzed are summarized in Table 10 and Table E-1 within Appendix E. The constituent 2-chlorophenol was observed in a single well (16A) at a concentration of 0.022 ppm. The constituent 4-chlorophenol was detected in the same well at a concentration of 0.062 ppm.

The groundwater sample collected from natural attenuation monitoring well 39B-R was also intended to be analyzed for 2-chlorophenol and 4-chlorophenol. However, this sample was inadvertently analyzed for all SVOCs typically analyzed by EPA Method 8270, which includes 2-chlorophenol, but not 4-chlorophenol. These SVOC analytical results are also summarized in Table 10 and Table E-1 of Appendix E. Five SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, naphthalene, and phenol) were detected in the sample from well 39B-R.

### 3.2.4 Natural Attenuation Monitoring Results

Groundwater samples from 22 monitoring wells were analyzed for natural attenuation parameters as part of the spring 2008 interim sampling event. The analytical results for these parameters (along with any detected VOCs or SVOCs) are provided in Table 11 and Table E-1 within Appendix E. A summary of the natural attenuation sampling results is provided below:

Parameter	Number Of Detects	Result Range (ppm)
Alkalinity	22	87 to 580
Chloride	21	ND to 1,900
Dissolved Organic Carbon	19	0.66 to 32.9
Ethane	0	ND
Ethene	2	ND to 0.76
Dissolved Iron	13	ND to 3.68
Methane	15	ND to 10.9
Nitrate (Nitrogen)	4	ND to 4.29
Nitrite (Nitrogen)	0	ND
Sulfate (turbidimetric)	19	ND to 169

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

### 4. Assessment of Results

### 4.1 General

The information presented herein is based on the field monitoring and laboratory results obtained during spring 2008 monitoring period, supplemented with historical data when applicable. This section discusses the groundwater quality Performance Standards, NAPL-related Performance Standards and the results of the interim groundwater sampling event and NAPL monitoring and recovery program at GMA 3 in spring 2008.

#### 4.2 Performance Standards

### 4.2.1 Groundwater Quality Performance Standards

The Performance Standards applicable to response actions for groundwater at GMA 3 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 3 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 below ground
  surface of 15 feet or less. Under the MCP, volatile constituents present within GW-2
  groundwater represent a potential source of organic 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. In accordance with the CD and SOW, all groundwater at GMA 3 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 and will serve as the initial basis for evaluating groundwater at GMA 3. The current MCP

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

Method 1 GW-2 and GW-3 standards for the constituents detected in the spring 2008 sampling event are listed in Tables 8 and 9, respectively. 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 groundwater 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 this report constitutes the first report at this GMA for which those standards will be applied. 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. As such, although neither metal was analyzed for in any of the samples collected during this sampling event, GE has utilized those Method 2 standards in its evaluation of whether there is any need for additional monitoring for those constituents.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 3 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:
  - (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); or

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

- (b) 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
  - (b) 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 3 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 2.4, only selected wells were sampled in spring 2008, including a number of wells designated as natural attenuation monitoring wells, which are used to evaluate natural attenuation mechanisms in groundwater. In addition to the Performance Standards described above, analytical results from all groundwater monitoring wells sampled during the spring 2008 sampling event were compared to the MCP UCLs for groundwater.

### 4.2.2 NAPL-Related Performance Standards

Under the CD and SOW, GE is required to perform monitoring, recovery, assessment, and other response activities related to NAPL until the applicable NAPL-related Performance Standards are ultimately achieved. The NAPL-related Performance Standards are set forth in Section 2.7 and Attachment H (Section 4.0) of the SOW. They consist of the following:

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

- 1. Containment, defined as no discharge of NAPL to surface waters and/or sediments, which shall include no sheens on surface water and no bank seeps of NAPL.
- 2. For areas near surface waters in which there is no physical containment barrier between the wells and the surface water, elimination of measurable NAPL (i.e., detectable with an oil/water interface probe) in wells near the surface water bank that could potentially discharge NAPL into the surface water, in order to prevent such discharge and assist in achieving groundwater quality Performance Standards.
- 3. For areas adjacent to physical containment barriers, prevention of any measurable LNAPL migration around the ends of the physical containment barriers.
- 4. For NAPL areas not located adjacent to surface waters, reduction in the amount of measurable NAPL to levels which eliminate the potential for NAPL migration toward surface water discharge areas or beyond GMA boundaries, and which assist in achieving groundwater quality Performance Standards.
- 5. For NAPL detected in wells designed to assess GW-2 groundwater (i.e., located at average depths of 15 feet or less from the ground surface and within a horizontal distance of 30 feet from an existing occupied building), a demonstration that constituents in the NAPL do not pose an unacceptable risk to occupants of such building via volatilization and transport to the indoor air of such building. Such demonstration may include assessment activities such as: NAPL sampling, soil gas sampling, desk-top modeling of potential volatilization of chemicals from the NAPL (or associated groundwater) to the indoor air of the nearby occupied buildings, or sampling of the indoor air of such buildings. If necessary, GE shall propose corrective actions, including, but not limited to, containment, recovery, or treatment of NAPL and impacted groundwater.

In addition to these Performance Standards, GE has developed and implemented site-wide criteria for NAPL monitoring and manual recovery requirements, standard procedures for assessment of new NAPL occurrences, and the feasibility of the installation of new recovery systems. Those guidelines, which have been incorporated into GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP), are described below.

### 4.2.3 Manual NAPL Removal Criteria

During routine NAPL monitoring/removal activities at select GE monitoring wells, LNAPL accumulations observed in excess of 0.25 feet are manually removed at the time of monitoring. For DNAPL, accumulations in excess of 0.5 feet are manually removed. Exceptions to these criteria are in place for certain wells that are located either upgradient

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

of sensitive receptors (i.e., any measurable quantities of NAPL are manually removed) or within the capture zone of automated recovery systems (i.e., no NAPL is manually removed). Any exception to the standard NAPL removal criteria applicable to a given well is shown in Table 2.

These manual removal criteria apply only during routine NAPL monitoring program events (i.e., weekly, monthly, and quarterly). No NAPL removal is required at wells monitored for other reasons between routine monitoring events (e.g., during well inventory inspections, or other non-routine data gathering activities) or in connection with GE's semi-annual NAPL monitoring round during the spring and fall quarterly monitoring events (due to the performance of a bailing round, as discussed below).

Approximately 1 to 2 weeks prior to the spring and fall semi-annual monitoring events, all wells where the presence of NAPL was observed during the prior year are monitored and any recoverable thicknesses of NAPL are manually removed (i.e., the bailing round). For those wells where NAPL was present, after allowing time for NAPL to return, the wells are monitored again as part of the semi-annual monitoring event and the data obtained are utilized to estimate the current thickness of LNAPL in the area. Due to the large number of wells included in the semi-annual monitoring program, and the desire to collect the groundwater elevation data from all wells in the same relative time period so as to provide a more accurate account of flow conditions, no manual removal of NAPL from monitoring wells is required during the actual semi-annual data collection event (i.e., the monitoring round) for those wells from which NAPL had been removed in the bailing round. The purpose for performing the bailing and monitoring rounds is to confirm that the NAPL present in a well is representative of the surrounding formation and does not reflect remnant oil that may have accumulated in the well since the last manual removal. This uniform removal procedure also provides a consistent basis for comparison of data with future NAPL monitoring data.

If a measurable thickness of NAPL is observed during the spring or fall semi-annual monitoring event in a well that was not addressed during the bailing round, the NAPL is manually removed and the well is again monitored after approximately one week to gauge the NAPL thickness. The information obtained during that supplemental monitoring round is utilized in GE's assessment of the seasonal extent of NAPL.

### 4.2.4 Assessment of New NAPL Observations

This section describes the process utilized to investigate new or anomalous NAPL observations. Such observations may include either instrument detection of NAPL at a new location or detection of a type of NAPL not typically associated with a particular well (e.g., if

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

DNAPL was observed in a monitoring well where LNAPL is typically observed). This process generally includes the following steps:

- Confirmation that NAPL is actually present at the well by bailing or pumping the well to verify that an instrument error did not occur. Additionally, the NAPL will be physically observed in a jar to visually assess its relative density compared to water.
- 2. The GE Project Manager is notified of the new NAPL occurrence. The GE Project Manager will then arrange to make any required federal or state Agency notifications, as appropriate.
- 3. Initially, the monitoring frequency at the well will be modified to at least once per week for a period of at least one month, and any observed NAPL will be removed. If additional wells are located in the vicinity and screened at the appropriate interval, they will also be monitored for NAPL presence.
- 4. Based on the results of Steps 1 and 3 above, GE may recommend that: a) the well be further evaluated for the potential installation of an automated recovery system; b) additional soil borings/monitoring wells be installed in the vicinity; or c) enhanced NAPL monitoring/ recovery activities be implemented.

After completion of these initial assessment activities, monitoring and manual NAPL recovery (if NAPL thicknesses exceed the standard manual removal criteria) activities will revert to their normal intervals (unless more frequent monitoring is recommended), pending Agency approval of any recommendation made by GE.

### 4.2.5 Criteria for Installation of Automated Recovery Systems

To aid in the assessment of whether additional automated recovery systems are necessary and feasible at a given location where NAPL is present, several key factors should be considered, specifically:

- The presence of other nearby active NAPL recovery systems;
- Quantity of NAPL available (on a continuing basis) to be recovered;
- Migration potential of the NAPL (considering historical monitoring data and capture areas of existing recovery systems); and
- Technical feasibility and practicality of installing an automated recovery system.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

Each of these factors is discussed in more detail below.

If there are already active NAPL recovery systems operating nearby, an assessment must be made as to whether the NAPL area in question will be addressed by the existing system. Additional automated recovery systems are generally not required for NAPL areas that are within the capture zone of an operating active recovery system or positioned upgradient of it, such that the NAPL will ultimately be addressed by the existing recovery system.

If the NAPL area is not already addressed by an existing system, it must be confirmed whether sufficient quantities of NAPL are moving into a well to justify the potential installation of a recovery system. This determination is made through the performance of a NAPL recovery test conducted over a 2- to 3-day period. NAPL is manually removed from the well, initially on an hourly basis, and the amount of NAPL returning to the well between each removal interval is measured and recorded. Depending on the recovery rate, the time intervals of manual removal during the recovery test may be increased or decreased from the initial hourly interval. If the average NAPL quantity that returns to the well over the duration of the test is significant (e.g., greater than 0.5 liter per hour, or greater than 6 to 12 inches per hour in a 2-inch well), the location may be deemed a potential candidate for an automated recovery system based on NAPL quantity. NAPL samples may also be collected during this test and analyzed for chemical and/or physical parameters if such data do not already exist for the NAPL area in question. Physical testing will include specific gravity and viscosity. If warranted, interfacial tension may also be measured.

If it is determined that sufficient NAPL is potentially present, a more detailed analysis of NAPL migration potential is necessary to confirm whether operation of an automated recovery system is appropriate to address the NAPL occurrence and to obtain sufficient information to design such a system. This phase of the evaluation process will vary based on area-specific considerations, but will generally include:

- Assessment of the NAPL physical and chemical properties to assess the migration potential of the NAPL and to aid in selection of pumping equipment and disposal options.
- Assessment of factors that might limit NAPL migration, such as viscosity of the NAPL, soil types, hydraulic factors, and/or presence of existing physical containment barriers. NAPLs with limited potential to migrate offsite or toward surface water bodies may be more appropriately addressed through other measures, such as an enhanced manual removal program.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

Evaluation of potential migration pathways of the NAPL. This evaluation may include
the installation and monitoring of sentinel wells (if none already exist) downgradient of
the NAPL area. In some cases, installation of an automated recovery system may be
deferred until downgradient migration of NAPL can be further assessed by routine
monitoring of sentinel wells.

Finally, if after completion of the above evaluations it is determined that additional responses to the presence of NAPL are necessary, the physical characteristics of the area where the system would be located must be taken into consideration, as installation of a recovery system may not be practical in some areas. A generalized automated recovery system will involve a recovery well equipped with NAPL and/or groundwater removal pumps, a holding tank or vessel for the NAPL that is removed, and either piping to route purged groundwater to GE's treatment facility or a large holding tank to store groundwater for disposal (which would need to be accessible to a tanker truck). Some locations may not allow for the placement of these items due to physical or property ownership constraints. In those cases, it may be necessary to implement alternative response actions, such as increased manual monitoring/removal.

### 4.3 Groundwater Quality - Spring 2008

For the purpose of generally assessing current groundwater quality conditions, the analytical results from the spring 2008 groundwater sampling event were compared to the applicable groundwater Performance Standards for GMA 3. These Performance Standards are described in Section 4.2.1 above, and are currently based (on a well-specific basis) on the MCP Method 1 GW-2 and/or GW-3 standards. The following subsections discuss the spring 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 8 and 9 provide a comparison of the concentrations of detected constituents with the currently applicable GW-2 and GW-3 standards, respectively, while Table 10 presents a comparison of the concentrations of detected constituents with the groundwater UCLs.

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

Groundwater samples were collected from two designated GW-2 monitoring wells (i.e., wells 16B-R and 51-14) in spring 2008. The spring 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 8. None of the spring 2008 sample results from GW-2 monitoring wells 16B-R or 51-14 exceeded the GW-2 standards and total VOC concentrations were well below 5 ppm (the level specified in the SOW as a notification level for GW-2 wells within 30 feet of a school or

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

occupied residential structure and as a trigger level for the proposal of interim response actions).

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

A total of seven monitoring wells at GMA 3 designated as GW-3 monitoring points (i.e., wells 6B-R, 82B-R, 89B, 90B, 95B-R, 111B-R, and 114B-R) were sampled in spring 2008. The spring 2008 groundwater analytical results for all detected constituents and a comparison of those results with the applicable MCP Method 1 GW-3 standards are presented in Table 9. As shown in Table 9, the GW-3 standard for chlorobenzene (1 ppm) was exceeded at three wells (6B-R, 95B-R, and 114 B-R) at concentrations of 2.5 ppm, 10.2 ppm and 1.4 ppm, respectively. It should be noted that the MCP GW-3 standard for PCBs was increased from 0.0003 ppm to 0.01 ppm as part of the February 14, 2008 revisions. Although no PCBs were detected in any filtered samples analyzed in spring 2008, all prior results from GMA 3 that were recorded as exceedances of the prior standard are below the new standard of 0.01 ppm.

The SOW requires that interim response actions must be proposed for baseline sampling results which exceed Method 1 GW-3 standards at downgradient perimeter monitoring wells, in which: (a) such an exceedence had not previously been detected, or (b) there was a previous exceedance of the Method 1 GW-3 standard and the groundwater concentration is greater than or equal to 100 times the GW-3 standard (if the exceedance was not previously addressed). These interim response actions may include: (1) further assessment activities, such as resampling, increasing the sampling frequency to quarterly, additional well installation, and/or continuing the baseline monitoring program; (2) active response actions; and/or (3) the conduct of a site-specific risk evaluation and proposal of alternative risk-based GW-3 Performance Standards.

For the three wells where the Method 1 GW-3 standards for chlorobenzene was exceeded (6B-R, 95B-R and 114B-R), historical VOC data has shown similar or greater concentrations than those detected during spring 2008. In addition, these wells are located in the vicinity of a known chlorobenzene plume. Therefore, GE's proposed response action to address these exceedances is to continue the natural attenuation monitoring program at these locations, as discussed further in Section 5 below.

### 4.3.3 Groundwater Results Relative to Upper Concentration Limits

In addition to comparing the spring 2008 groundwater analytical results with applicable MCP Method 1 GW-2 and GW-3 standards, all detected constituents have also been compared with the groundwater UCLs specified in the MCP (310 CMR 40.0996(7)), as presented in Table 10. The results shown on Table 10 indicate that one constituent

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

(chlorobenzene) was detected at levels above the applicable UCL. The UCL for chlorobenzene is 10 ppm, which was exceeded at natural attenuation wells 2A (77 ppm [97 ppm in the duplicate sample]), 16A (37 ppm), 39B-R (16 ppm), 89A (26 ppm), 89D-R (32 ppm), and 95B-R (10.2 ppm). Similar or higher chlorobenzene concentrations have previously been detected at all of these locations. Additionally, with the exception of well 95B-R, the UCL has also been previously exceeded at these locations. The spring 2008 concentration at well 95B-R (10.2 ppm) slightly exceeded the UCL (10 ppm) and the fall 2007 concentration (9.7 ppm). EPA and MDEP were informed of the new UCL exceedance at well 95B-R on May 29, 2008.

The screened intervals of three of these six wells are positioned at depths of approximately 50 feet bgs, indicating that the elevated chlorobenzene levels are associated with the midlevel groundwater unit, which is consistent with prior investigation results showing that the VOC plume is primarily present in the A-series wells to the south of the former Waste Stabilization Basin. Well 39B-R is a water table well located immediately adjacent to the downgradient edge of the former Waste Stabilization Basin. Well 95B-R is a water table well located near the downgradient edge of the known chlorobenzene plume. In Section 5, GE proposes to continue the current natural attenuation monitoring at these locations to further assess the VOC concentrations in groundwater at this area.

### 4.4 Natural Attenuation Monitoring Results

In addition to collecting and analyzing groundwater samples for comparison with the applicable MCP Method 1 groundwater standards and UCLs, groundwater samples from 22 monitoring wells were analyzed for natural attenuation parameters to assess intrinsic and natural processes that could mitigate groundwater impacts. The analytical results for these parameters (along with any detected VOCs) are provided in Table 11 and Appendix E. In addition, Table F-1 in Appendix F provides a summary of all available historical natural attenuation analytical data (as well as data for selected VOCs analyzed during the natural attenuation monitoring rounds) for the wells that were analyzed for these parameters in spring 2008.

As illustrated in Appendix F, the concentrations of VOCs have decreased significantly from their historical high levels at many locations that have large historical databases. The natural attenuation parameters can be variable at individual monitoring wells or on a spatial basis (both vertically and horizontally). Several natural attenuation parameters have remained relatively stable over time (e.g., alkalinity), or have only been occasionally observed at low levels (e.g., ethane and ethene). Chlorobenzene breakdown byproducts (i.e., 2- and 4-chlorophenol) are also observed in several wells, indicating the continued natural degradation of this constituent. GE will continue to track changes in concentrations of natural attenuation parameters during the course of the interim monitoring program and

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

will provide updated assessments of these results in future interim summary reports following sampling events when natural attenuation data is collected (i.e., after the spring groundwater quality monitoring rounds). A complete assessment of the natural attenuation parameters and their significance with respect to natural breakdown of VOC constituents in groundwater will be presented in the Baseline Assessment Final Report for this GMA.

Filtered samples from natural attenuation monitoring well 114A were also analyzed for PCBs, in accordance with EPA's December 7, 2006 conditional approval letter which required such analyses to be performed whenever samples from water table well 114B-R were analyzed for PCBs. This analysis was required to assess potential vertical migration of PCBs at this well cluster after an increase in PCB concentrations were observed at well 114B-R in spring 2006. No PCBs were detected in either well 114A or 114B-R in spring 2008, which is consistent with the previous sampling round performed at this well cluster in fall 2007. In Section 5.2 below, GE proposes to discontinue PCB analyses at these wells since the spring 2006 PCB results from well 114B-R appear to be anomalous and are well below the revised MCP Method 1 GW-3 standard for PCBs.

### 4.5 Overall Assessment of Analytical Results

Graphs illustrating historical concentrations of total VOCs and total PCBs, including the spring 2008 concentrations, are provided in Appendix F for all wells sampled in spring 2008 that were analyzed for those constituents. In addition, Appendix F contains graphs of historical concentrations of individual constituents (i.e., benzene, carbon tetrachloride, and chlorobenzene) that exceeded the applicable MCP Method 1 GW-3 standards or UCLs at monitoring wells during any of the prior baseline monitoring program sampling events that were analyzed for those constituents in spring 2008.

Based on a review of the Concentration vs. Time graphs presented in Appendix F, it appears that concentrations of total VOCs have decreased in comparison to historical high levels in many of the wells downgradient of the former Waste Stabilization Basin, (i.e., the area known to contain the greatest VOC concentrations) where several years of prior data are available. While slight increases have been observed in a few wells during the baseline monitoring program, the constituent concentrations are generally well below historical high levels, particularly at wells (2A, 16A, 16C, 39B/B-R) that are closest to the waste stabilization basin. Total VOC concentrations have exhibited seasonal variation at well 6B/6B-R for the past several years. Specifically, VOC concentrations during the fall monitoring periods have trended upward since baseline monitoring was initiated in 2004, but remained at relatively low levels during the spring monitoring periods. To a lesser extent, the same trend is evident in the benzene and chlorobenzene concentrations at this well, although the chlorobenzene concentrations have decreased significantly from the historical high levels observed prior to the start of the baseline monitoring program. No

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

trends are evident in the carbon tetrachloride concentrations at well 51-14, as the concentrations have remained at relatively low levels since an exceedance of the Method 1 GW-2 standard for this constituent was observed in spring 2005.

For PCBs, no trends are evident on the historical concentration graphs in Appendix F. Well 82B-R contained PCB concentrations at or near the former GW-3 standard during three monitoring events between spring 2005 and 2006, but all PCB results from this well are well below the new GW-3 standard of 0.010 ppm. Further, no PCBs were detected in the well prior to that time or in the spring 2008 samples. At well 114B-R, the former GW-3 standard was exceeded in the samples analyzed in spring 2006, but no PCBs have been detected in filtered samples analyzed during any other round and the spring 2006 concentration is well below the new GW-3 standard. Based on a review of the data from this well, the spring 2006 result is likely anomalous.

### 4.6 Evaluation of NAPL Monitoring and Recovery Activities

#### 4.6.1 Extent of NAPL

The historical maximum extent of measurable LNAPL at GMA 3 is illustrated on Figure 6. The extent of LNAPL observed during the spring 2008 semi-annual monitoring event is shown on Figure 7. These figures show a significant decrease in the extent of measurable LNAPL observed in spring 2008 (similar to the fall 2007 event) compared to the known maximum extent, particularly along the northeastern edge of the LNAPL area. This reduction in LNAPL extent on the northeastern portion of the LNAPL plume is likely attributable to GE's active NAPL recovery program, which includes automatic skimmer systems in wells 51-21 and GMA3-17, and routine manual recovery of LNAPL at surrounding locations.

GE has also monitored well GMA4-3, located in GMA 4 across Plastics Avenue from well GMA3-13. NAPL has never been detected in that well. Moreover, in EPA's December 7, 2006 conditional approval letter, EPA required GE to include GMA 4 wells 60B and RF-14 in the groundwater elevation table and contour map for GMA 3. Accordingly, GE has included those wells in this report. Except for the potential presence of LNAPL in well GMA3-11 (based on a single suspect instrument reading in spring 2007), the reduction of LNAPL along the northern edge of the LNAPL area and occasional variations in LNAPL presence in well GMA3-13, the extent of LNAPL has remained relatively consistent in recent years.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

### 4.6.2 NAPL Recovery

As discussed in Section 2.4, approximately 35 gallons of LNAPL were recovered at GMA 3 in spring 2008. Of this total, approximately 12.8 gallons were removed by the automated skimmer system at well 51-21, approximately 14.5 gallons were removed by the new automated skimmer system at well GMA3-17, and the remaining 7.7 gallons were manually recovered from other monitoring wells (see Tables 5 and 6). For comparison, over the same time period in spring 2007, approximately 36.9 gallons of LNAPL were recovered at GMA 3 (approximately 31.6 gallons by the automated skimmer system at well 51-21, and approximately 5.3 gallons from other monitoring wells), indicating that the LNAPL recovery volume has been generally consistent with the prior year. Since 1997, approximately 1,449 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program.

Per Condition 4 of EPA's Conditional approval letter of the fall 2007 GMA 3 NAPL Monitoring Report dated April 23, 2008, GE has evaluated if a connection exists between groundwater elevations and LNAPL recovery volumes at GMA 3. The graphs presented in Appendix B compare the volumes of LNAPL recovered on a quarterly basis since summer 2000 to the average quarterly groundwater elevations of the wells within or adjacent to the known LNAPL area. A graph illustrating the data comparisons for the overall time period for which data were available (i.e., all results from summer 2003 to spring 2008) is presented to assess variations in groundwater elevations and LNAPL recovery between quarters. In addition, graphs of the data from each individual quarter are provided to assess if LNAPL recovery varied based on isolated wet or dry seasons over the same time period.

As shown in the overall data graph, Quarters 3 (July through September) and 4 (October through December), which are typically the seasons with decreased overall groundwater elevations, contained the greatest LNAPL removal during any given year. Quarter 2 (April through June) showed the least LNAPL recovery and the most elevated groundwater elevations compared to the other quarters. However, a review of the graphs for the individual quarters shows that there is only a slight correlation between ground water elevations and the recovery of LNAPL. Overall, groundwater elevations are relatively consistent in this area (generally slightly above or below 987 feet AMSL), and even more so when comparing data over the same time period from year to year, while the volume of LNAPL recovered showed a much greater degree of variation, even between quarters with similar average groundwater elevations.

Although these results may indicate a possibility of a correlation between lower groundwater elevations and higher LNAPL recovery, the relationship is not clearly established and does not appear to be sufficiently significant to warrant modifications to the ongoing NAPL recovery program to optimize recovery.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

# 5. Proposed Groundwater and NAPL Monitoring Program Modifications

#### 5.1 General

The interim monitoring program now being conducted is designed to continue the natural attenuation monitoring program and 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 program.

This section contains GE's evaluation of the effect on the interim groundwater quality monitoring program of the recent revisions to the MCP Method 1 standards and UCLs for groundwater that became effective on February 14, 2008, and a description of GE's proposed modifications to the monitoring program. In light of the new standards, GE has re-evaluated the analytical results from the baseline and interim monitoring program to determine whether, and, if so, how the new Performance Standards should alter the wells and/or parameters included in the interim monitoring program. GE has also reviewed the groundwater analytical data from the spring 2008 interim sampling event for results that, independent of the changes in standards, would 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.

### 5.2 Evaluation and Proposed Modifications to Interim Monitoring Program

In the Fall 2005 GMA 3 Baseline Report, GE presented an evaluation of the baseline monitoring results from GMA 3 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 were well below the applicable MCP Method 1 Standards and at locations where 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.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

Following revisions to the MCP that became effective on April 3, 2006, GE repeated that evaluation, comparing all baseline and interim groundwater quality data to the new ("Wave 2") MCP Method 1 Standards. Based on the same inclusion criteria utilized in fall 2005 at GMA 3 (and at the other GMAs once their two-year baseline monitoring periods expired), GE's assessment indicated that certain baseline wells that were previously excluded from the interim monitoring program based on historical concentrations of certain constituents that were above the levels of the previously-effective MCP Method 1 standards either were much closer to the MCP Method 1 standards, such that interim monitoring was warranted to assess the need for inclusion of these locations in a long-term monitoring program, or were sufficiently below the MCP Method 1 standards such that further monitoring was not considered necessary. GE's assessment also indicated that certain wells previously included in the interim monitoring program based on historical concentrations of certain constituents near the levels of the prior MCP Method 1 standards were no longer of interest based on an increase in those standards. In the Spring 2006 GMA 3 Baseline Report, GE identified locations that should be added to the interim monitoring program and proposed to modify the interim monitoring program accordingly. Following EPA conditional approval of those modifications, GE implemented the revised interim monitoring program.

In light of the recent revisions to the MCP that became effective on February 14, 2008, GE has performed a similar evaluation to that conducted in 2006. Specifically, GE initially researched the GMA 3 database for any baseline analytical results where constituent concentrations of at least 50% of an applicable MCP Method 1 Standard were recorded. Any such locations/results were selected for further evaluation, consisting of a statistical evaluation of the constituents at each location, calculation of average concentrations, and a general review of concentrations over time to determine if an increasing trend may be present.

GE has identified several locations that should be added to or removed from the interim monitoring program and therefore proposes to modify the interim monitoring program. These modifications are discussed below. In particular, the modification of the Method 1 GW-3 standard for PCBs (from 0.0003 ppm to 0.010 ppm) has reduced the uncertainty of whether long-term monitoring for PCBs will be necessary to demonstrate compliance with the new GW-3 standard and a corresponding reduction in the GW-3 monitoring wells to be analyzed for PCBs during the interim monitoring program is proposed below.

In addition, as a new Method 1 GW-2 standard for PCBs has been promulgated in the 2008 MCP revision, GE evaluated the existing data from the GW-2 wells at GMA 3 to determine if additional sampling would be required to verify compliance with this new standard. As agreed with EPA, GE used filtered PCB results for this comparison. GE found that the existing PCB database for all dual-purpose GW-2/GW-3 monitoring wells was sufficient, but

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

that the wells monitored solely for GW-2 compliance were not analyzed for PCBs during the baseline monitoring program, since no GW-2 standard for PCBs was in effect at the time the sampling was performed. As such, GE has proposed to conduct additional sampling for PCBs at those locations, as discussed below.

A summary of the proposed interim sampling program for GMA 3 is provided in Table 12, and the locations where sampling is proposed are illustrated on Figure 8. Specifically, GE proposes the following:

- Average filtered PCB concentrations are well below the new MCP GW-3 standard at all of the wells that are currently analyzed for PCBs under the interim monitoring program. As such, GE proposes that PCB analyses be discontinued at wells 82B-R and 114B-R, which are designated as GW-3 perimeter wells.
- In addition, GE proposes discontinuing monitoring at well 114A, where supplemental PCB analysis was performed to assess vertical migration of PCBs from the vicinity of water table well 114B-R through the water column at this well cluster. No PCBs have been detected in well 114A and, as discussed above, the PCB levels observed in well 114B-R (including the anomalous results from the spring 2006 sampling event) are well below the new MCP GW-3 standard.
- PCB sampling is proposed at the seven GW-2 monitoring wells that were sampled solely for VOCs during the baseline monitoring program. These wells are: 16B-R, 51-14, GMA3-2, GMA3-4, GMA3-8, GMA3-9, and OBG-2.

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 discontinue additional sampling or to add the well to the ongoing interim or long-term monitoring program at GMA 3. As agreed with EPA, GE will analyze filtered groundwater samples for comparison with the GW-2 standard.

The modification to the interim sampling program discussed above (i.e., semi-annual analysis for PCBs at selected GW-2 monitoring wells) is proposed to be initiated in fall 2008. Additional details on the sampling and reporting schedule at GMA 3 are provided in Section 6 below.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

### 5.3 NAPL Monitoring Program Modifications

As discussed in Section 2.2 above, GE will re-develop wells 51-7, 51-9, 51-13, and 59-1 to remove sediment which prohibited the collection of groundwater elevation data in fall 2007. GE will conduct those activities in September 2008 to allow the wells to stabilize prior to the fall 2008 monitoring event. If re-development of those wells is unsuccessful, GE will discuss the need for additional response actions (e.g., well replacement or substitutions in the monitoring program) with EPA. No other changes to GE's ongoing NAPL monitoring or recovery activities at GMA 3 are proposed at this time.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

#### 6. Schedule of Future Activities

#### 6.1 General

This section addresses the schedule for upcoming groundwater quality monitoring activities and reporting for GMA 3. This schedule assumes that the modifications to the interim groundwater monitoring program proposed in Section 5 will be implemented following EPA approval.

#### 6.2 Field Activities Schedule

GE will continue its routine groundwater elevation and NAPL monitoring according to the current schedule approved by EPA. Also, as discussed in Section 5.3 above, GE will redevelop selected wells in September 2008. In accordance with the approved semi-annual monitoring schedule, the fall 2008 groundwater elevation monitoring and NAPL monitoring event is scheduled to be completed in October 2008. GE will conduct a NAPL bailing round approximately one to two weeks prior to the fall 2008 semi-annual NAPL monitoring event.

GE will conduct the fall 2008 interim groundwater sampling event at GMA 1 in October to November 2008, in conjunction with groundwater sampling activities that will be performed at the other GMAs. That sampling event will consist of the initial semi-annual sampling and analysis of filtered samples for PCBs at the GW-2 monitoring locations where compliance with the new MCP Method 1 GW-2 standard for PCBs was not verified during the initial baseline monitoring program (see Table 12). Approximately one month prior to that sampling event, GE will inspect and re-develop selected GW-2 monitoring wells that have not recently been utilized as part of the interim monitoring program.

The next natural attenuation monitoring event (conducted each spring) is scheduled for April 2009. GE will sample 22 wells, analyzing for VOCs and the natural attenuation parameters listed in Table 12.

Unlike the natural attenuation sampling, interim groundwater sampling activities alternate between the spring and fall seasons on an annual basis. The next full interim sampling event is scheduled for October 2009, when groundwater samples will be collected and analyzed for VOCs from monitoring wells 6B-R and 51-14, along with the continued semi-annual sampling and analysis for PCBs from the select GW-2 monitoring wells listed in Table 12.

GMA 3 – Groundwater Quality & NAPL Interim Monitoring Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

As described in Appendix E (Sub-Slab Soil Gas and Indoor Air Investigation Summary Report for Buildings 51 & 59 - Fall 2007) of GE's Fall 2007 GMA 3 Monitoring Report, during October 2008 GE will conduct its annual inventory within Buildings 51 and 59 of materials and/or products that could contain volatile constituents similar to those that have been previously detected in the indoor air samples and are common to the target constituents in the LNAPL or groundwater. Shortly following completion of the building inventories, GE will perform additional monitoring of soil gas beneath, and indoor air within, Buildings 51 and 59 at or near the same locations that were sampled in fall 2007. That sampling will be performed in conjunction with the fall 2008 interim groundwater sampling event, or sequentially after completion of the groundwater sampling activities.

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

#### 6.3 Reporting Schedule

GE will submit the *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Fall 2008* by February 28, 2009, in accordance with the reporting schedule approved by EPA. That report will present the final, validated fall 2008 interim sampling results and a brief discussion of the results, including any proposals to further modify the interim monitoring program, if necessary. GE will also include the groundwater elevation monitoring results and NAPL monitoring and recovery data for the period of July 2008 through December 2008, along with a summary of other activities related to groundwater quality and NAPL monitoring recovery conducted at GMA 3 during that time period and any proposals to modify those activities, if applicable. Finally, that report will include the results of the fall 2008 round of Buildings 51 and 59 product inventories and sub-slab soil gas/indoor air sampling and analysis.

GE will also continue to provide the results of its ongoing groundwater, NAPL, soil gas, and indoor air monitoring activities and NAPL recovery efforts in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

**Tables** 

Groundwater Quality Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Table 1

Well Number	Well Designation / Analytical Category	Sampling Schedule	Analyses	Comments
2A	Natural Attenuation	Annual (1)	See Note 3	
6B-R	GW-3 Perimeter	Annual (2)	VOC	
16A	Natural Attenuation	Annual (1)	See Note 3	
16B-R	GW-2 Sentinel/Natural Attenuation	Annual (1)	See Note 4	
16C-R	Natural Attenuation	Annual (1)	See Note 4	
39B-R	Natural Attenuation	Annual (1)	See Note 3	
39D-R	Natural Attenuation	Annual (1)	See Note 4	
39E	Natural Attenuation	Annual (1)	See Note 4	
43A	Natural Attenuation	Annual (1)	See Note 4	
43B	Natural Attenuation	Annual (1)	See Note 4	
51-14	GW-2 Sentinel	Annual (2)	VOC	
82B-R	GW-3 Perimeter	Annual (2)	PCB	
89A	Natural Attenuation	Annual <sup>(1)</sup>	See Note 3	
89B	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 3	
89D-R	Natural Attenuation	Annual (1)	See Note 4	
90A	Natural Attenuation	Annual (1)	See Note 4	
90B	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 4	
95A	Natural Attenuation	Annual (1)	See Note 3	
95B-R	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 3	
111A-R	Natural Attenuation	Annual (1)	See Note 4	
111B-R	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 4	
114A	Natural Attenuation / Supplemental	Annual (1,2)	See Note 5	Supplemental sampling conducted for PCBs to assess results from GW-3 well 114B-R

## Table 1 Groundwater Quality Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts

Well Number	Well Designation / Analytical Category	Sampling Schedule	Analyses	Comments
114B-R	GW-3 Perimeter/Natural Attenuation	Annual (1,2)	See Note 5	
115A	Natural Attenuation	Annual (1)	See Note 4	
115B	Natural Attenuation	Annual (1)	See Note 4	

#### Notes:

- 1. Wells sampled under the natural attenuation monitoring program are sampled on an annual basis in the spring.
- 2. Wells designated for annual interim groundwater quality sampling, will be sampled for the listed parameters during the interim period between the completion of the baseline monitoring program and the initiation of a long-term monitoring program. The sampling schedule alternates between the spring and fall seasons each year.
- 3. Samples analyzed for: VOCs, two SVOCs (2-chlorophenol and 4-chlorophenol), and Natural Attenuation Parameters (methane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
- 4. Samples analyzed for: VOCs and Natural Attenuation Parameters (methane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
- 5. Samples analyzed for: VOCs and Natural Attenuation Parameters (methane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron) during the spring natural attenuation sampling rounds, and PCBs (filtered samples only)during the alternating spring/fall interim sampling rounds.

Table 2 Groundwater Elevation/NAPL Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3

General Ele	ectric Comp	any - Pittsfield	, Massachusetts

Well Number	Monitoring Frequency <sup>(1)</sup>	Manual NAPL Removal	Comments
GMA 3 Monitorin		Criteria (2)	
2A	Semi-Annual	Any Recoverable	
6B-R	Semi-Annual	Any Recoverable	
16A	Semi-Annual	Any Recoverable	
16B-R	Semi-Annual	Any Recoverable	
16C-R	Semi-Annual	Any Recoverable	
39B-R	Semi-Annual	Any Recoverable	
39D-R	Semi-Annual	Any Recoverable	Well 39D-R installed as a replacement for well 39D.
39E	Semi-Annual	Any Recoverable	· ·
43A	Semi-Annual	Any Recoverable	
43B	Semi-Annual	Any Recoverable	
51-5	Monthly	Standard Criteria	
51-6	Monthly	Standard Criteria	
51-7	Monthly	Standard Criteria	
51-8	Weekly	Standard Criteria	
51-9	Monthly	Standard Criteria	
51-11	Monthly	Standard Criteria	
51-12	Monthly	Standard Criteria	
51-13	Monthly	Standard Criteria	
51-14	Monthly	Standard Criteria	
51-15	Monthly	Standard Criteria	
51-16R	Monthly	Standard Criteria	
51-17	Monthly	Standard Criteria	
51-18	Monthly	Standard Criteria	
51-19	Monthly	Standard Criteria	
51-21	None	LNAPL skimmer in operation	Periodic monitoring conducted as part of routine maintenance activities
54B-R	Semi-Annual	Any Recoverable	
59-1	Monthly	Standard Criteria	
59-3R	Monthly	Standard Criteria	
59-7	Monthly	Standard Criteria	
78B-R	Monthly	Any Recoverable	
82B-R	Semi-Annual	Any Recoverable	
89A	Semi-Annual	Any Recoverable	
89B	Semi-Annual	Any Recoverable	
89D-R	Semi-Annual	Any Recoverable	
90A	Semi-Annual	Any Recoverable	
90B	Semi-Annual	Any Recoverable	
95A	Semi-Annual	Any Recoverable	
95B-R	Semi-Annual	Any Recoverable	
111A-R	Semi-Annual	Any Recoverable	
111B-R	Semi-Annual	Any Recoverable	
114A	Semi-Annual	Any Recoverable	
114B-R	Semi-Annual	Any Recoverable	

Table 2
Groundwater Elevation/NAPL Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3

General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Frequency (1)	Manual NAPL Removal Criteria <sup>(2)</sup>	Comments
115A	Semi-Annual	Any Recoverable	
115B	Semi-Annual	Any Recoverable	
GMA3-1	None	None	Installation of this well has been deferred until re-routing of Unkamet Brook is completed.
GMA3-2	Semi-Annual	Any Recoverable	
GMA3-3	Semi-Annual	Any Recoverable	
GMA3-4	Semi-Annual	Any Recoverable	
GMA3-5	Semi-Annual	Any Recoverable	
GMA3-6	Semi-Annual	Any Recoverable	
GMA3-7	Quarterly	Any Recoverable	Monitored in place of UB-PZ-1.
GMA3-8	Semi-Annual	Any Recoverable	
GMA3-9	Semi-Annual	Any Recoverable	
GMA3-10	Weekly	Standard Criteria	
GMA3-11	Monthly	Any Recoverable	
GMA3-12	Weekly	Standard Criteria	
GMA3-13	Weekly	Any Recoverable	
GMA3-14	Monthly	Any Recoverable	
GMA3-15	Quarterly	Any Recoverable	Monitored in place of UB-PZ-2.
GMA3-16	Weekly	Any Recoverable	
GMA3-17	None	LNAPL skimmer in operation	Periodic monitoring conducted as part of routine maintenance activities
OBG-2	Semi-Annual	Any Recoverable	
UB-MW-10	Monthly	Any Recoverable	
UB-PZ-3	Monthly	Any Recoverable	
GMA 4 Monitoring	Wells		
60B-R	Semi-Annual	Any Recoverable	
GMA4-3	Monthly	Any Recoverable	
RF-14	Semi-Annual	Any Recoverable	
GMA 3 Staff Gauge	es		
GMA3-SG-1	Semi-Annual	Not Applicable	
GMA3-SG-2	Semi-Annual	Not Applicable	
GMA3-SG-3	Semi-Annual	Not Applicable	
GMA3-SG-4	Semi-Annual	Not Applicable	

#### Notes:

- 1. Monitoring consists of periodic depth to water and NAPL thickness measurements, if present, and may also consist of manual removal of NAPL thickness greater than the well-specific criteria is observed during a monitoring event.
- Standard LNAPL Removal Criteria: LNAPL is manually removed from a well with this designation if a thickness of greater than 0.25 feet is
  observed during a monitoring event. At other wells, any recoverable quantities of LNAPL will be removed (except at wells 51-21 and GMA3-17, v
  are equipped with automated skimmers).
- 3. Any NAPL observed during the bailing round conducted prior to the spring and fall semi-annual monitoring events is manually removed.
- 4. No NAPL is manually removed from any wells during the spring and fall semi-annual monitoring events, provided that NAPL was removed during bailing round.
- 5. No NAPL is manually removed from any wells during non-routine data collection activities.

Monitoring Well Construction Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Table 3

Well ID	Survey Co		Well Diameter	Ground Surface Elevation	Measuring Point Elevatin	Depth to Top of Screen	Screen Length	Top of Screen Elevation	Base of Screen Elevation	Average Depth to Groundwater	Average Groundwater Elevation
	Northing	Easting	(inches)	(ft AMSL)	(ft AMSL)	(ft bgs)	(ft)	(ft AMSL)	(ft AMSL)	(ft bgs)	(ft AMSL)
2A	537005.10	138853.90	1.00	991.50	994.16	45.00	5.00	946.50	941.50	5.8	985.73
6B-R	537191.50	138910.00	2.00	991.40	993.62	2.00	10.00	989.40	979.40	4.8	986.63
16A	536730.50	139115.60	2.00	991.50	991.77	44.00	6.00	947.50	941.50	6.9	984.59
16B-R	536738.18	139076.37	2.00	991.80	994.87	3.08	10.00	988.72	978.72	6.2	985.59
16C-R	536734.00	139112.40	2.00	991.40	993.23	90.00	10.00	901.40	891.40	7.7	983.67
16E	536730.30	139112.70	1.00	991.40	992.14	144.00	6.00	847.40	841.40	7.2	984.18
34B	536293.70	138394.20	2.00	1,000.50	1,000.56	20.00	5.00	980.50	975.50	14.9	985.60
35B	536443.40	138525.40	2.00	998.03	997.36	18.00	5.00	980.03	975.03	12.6	985.40
39B-R	536938.60	138862.60	2.00	992.29	991.97	4.00	10.00	988.29	978.29	6.8	985.50
39D-R	536941.50	138854.80	2.00	992.30	994.73	55.00	10.00	937.30	927.30	6.3	985.95
39E	536932.10	138851.00	4.00	992.34	992.21	225.00	10.00	767.34	757.34	5.8	986.49
43A	538081.20	137905.90	1.00	991.90	993.79	45.00	5.00	946.90	941.90	5.1	986.81
43B	538081.20	137904.40	1.00	991.90	993.61	15.00	5.00	976.90	971.90	4.2	987.75
50B	538647.00	139106.20	2.00	989.76	991.76	8.50	5.00	981.26	976.26	1.1	988.67
51-05	536750.50	138335.60	2.00	996.91	996.44	5.00	10.00	991.91	981.91	10.5	986.39
51-06	536937.64	138194.32	2.00	997.57	997.36	5.00	10.00	992.57	982.57	10.9	986.70
51-07	536843.80	138244.60	2.00	997.26	997.08	5.00	10.00	992.26	982.26	10.6	986.66
51-08	536677.80	138317.00	2.00	997.39	997.08	5.00	10.00	992.39	982.39	11.2	986.19
51-09	536563.70	138370.30	2.00	997.76	997.70	5.00	10.00	992.76	982.76	10.2	987.56
51-11	536860.00	138774.50	2.00	994.62	994.37	5.00	10.00	989.62	979.62	8.6	986.04
51-12	536497.30	138518.50	2.00	996.83	996.55	5.00	10.00	991.83	981.83	7.6	989.26
51-13	536917.10	138579.80	2.00	997.68	997.42	5.00	10.00	992.68	982.68	9.2	988.46
51-14	536771.40	138502.60	2.00	996.93	996.77	5.00	10.00	991.93	981.93	10.7	986.24
51-15	536808.20	138306.30	2.00	996.68	996.43	5.00	10.00	991.68	981.68	10.4	986.33
51-16R	536830.20	138347.60	2.00	996.70	996.39	5.00	10.00	991.70	981.70	10.2	986.50
51-17	536769.90	138377.40	2.00	996.48	996.43	5.00	10.00	991.48	981.48	10.0	986.44
51-18	536902.90	138463.40	2.00	997.38	997.12	5.00	10.00	992.38	982.38	11.0	986.36
51-19	536823.20	138414.80	2.00	996.65	996.43	5.00	10.00	991.65	981.65	10.5	986.13
51-21	536767.70	138442.35	4.00	996.70*	1,001.49	5.00	10.00	991.70	981.70	10.4	986.28
54B-R	537827.30	139113.60	2.00	989.00	991.49	3.00	10.00	986.00	976.00	2.2	986.80
59-01	536488.80	138238.60	2.00	997.78	997.52	4.00	20.00	993.78	973.78	10.9	986.89
59-03R	536501.00	138260.70	2.00	997.82	997.64	7.30	10.00	990.52	980.52	11.5	986.34
59-07	536517.40	138296.10	2.00	998.27	997.96	4.00	20.00	994.27	974.27	11.8	986.42

Monitoring Well Construction Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Table 3

Well ID	Survey Co	oordinates Easting	Well Diameter (inches)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevatin (ft AMSL)	Depth to Top of Screen (ft bgs)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)	Average Depth to Groundwater (ft bgs)	Average Groundwater Elevation (ft AMSL)
74B	537490.90	138374.90	1.00	996.05	995.54	15.00	5.00	981.05	976.05	8.1	987.97
78B-R	537551.80	138716.50	2.00	989.11	988.83	1.82	10.00	987.29	977.29	1.6	987.48
82B-R	536937.40	139621.60	2.00	987.80	989.90	2.00	10.00	985.80	975.80	2.5	985.33
89A	536030.80	139413.40	1.00	983.60	985.76	43.00	5.00	940.60	935.60	0.8	982.81
89B	536031.60	139411.70	2.00	983.10	986.03	4.00	3.00	979.10	976.10	-0.4	983.48
89D-R	536072.20	139434.90	2.00	984.40	987.11	67.50	10.00	916.90	906.90	1.4	983.00
90A	536254.90	139765.40	1.00	986.50	988.07	45.00	5.00	941.50	936.50	3.7	982.79
90B	536251.60	139761.00	2.00	986.50	989.10	8.00	3.00	978.50	975.50	3.9	982.56
95A	535822.10	139769.60	1.00	985.30	987.18	45.00	5.00	940.30	935.30	4.4	980.94
95B-R	535637.20	139722.30	2.00	984.30	986.24	3.00	10.00	981.30	971.30	3.5	980.75
95C	535823.20	139780.30	1.00	985.30	988.16	95.00	5.00	890.30	885.30	1.2	984.07
111A-R	535824.10	139087.80	2.00	995.10	997.35	40.00	10.00	955.10	945.10	11.5	983.61
111B-R	535828.40	139092.00	2.00	994.80	997.48	7.18	10.00	987.62	977.62	11.7	983.12
114A	535499.50	139775.20	1.00	983.20	986.16	45.00	5.00	938.20	933.20	3.6	979.64
114B-R	535503.90	139786.90	2.00	983.50	985.54	4.00	10.00	979.50	969.50	4.1	979.36
114C	535500.50	139792.80	1.00	983.70	986.68	88.00	5.00	895.70	890.70	3.8	979.91
115A	N/A	N/A	1.00	986.69	988.53	36.00	5.00	950.69	945.69	7.8	978.89
115B	N/A	N/A	1.00	988.25	990.90	11.00	5.00	977.25	972.25	8.4	979.89
115C	N/A	N/A	1.00	987.24	988.37	109.00	5.00	878.24	873.24	10.1	977.12
GMA3-2	536596.40	138956.60	2.00	992.25	991.94	5.19	10.00	987.06	977.06	7.9	984.34
GMA3-3	538094.20	138178.20	2.00	990.86	990.45	2.00	10.00	988.86	978.86	2.1	988.81
GMA3-4	537044.70	138021.80	2.00	994.94	994.60	3.57	10.00	991.37	981.37	7.6	987.39
GMA3-5	537323.20	139766.90	2.00	991.50	993.67	4.00	10.00	987.50	977.50	5.5	985.96
GMA3-6	537021.50	138342.30	2.00	997.74	997.49	8.00	10.00	989.74	979.74	12.3	985.49
GMA3-7	536291.70	138397.40	2.00	1000.45	1000.17	10.00	10.00	990.45	980.45	13.1	987.36
GMA3-8	536339.60	138899.10	2.00	994.50	996.24	5.00	10.00	989.50	979.50	8.8	985.68
GMA3-9	537383.20	138385.60	2.00	992.90	992.39	3.00	10.00	989.90	979.90	5.3	987.59
GMA3-10	536659.10	138056.40	2.00	997.78	997.54	9.00	10.00	988.78	978.78	11.0	986.77
GMA3-11	536353.70	138147.90	2.00	997.78	997.25	9.00	10.00	988.78	978.78	10.8	987.03
GMA3-12	536469.20	138169.70	4.00	998.04	997.84	7.00	15.00	991.04	976.04	11.3	986.69
GMA3-13	536534.30	138035.90	2.00	998.00	997.73	8.06	10	989.94	979.94	11.3	986.66
GMA3-14	536710.30	137953.20	2.00	997.66	997.42	7.25	10	990.41	980.41	10.7	986.92
GMA3-15	536710.30	137953.20	2.00	994.60	996.74	6.00	10.00	988.60	978.60	9.0	985.60

Table 3
Monitoring Well Construction Summary

Well ID		oordinates	Well Diameter	Ground Surface Elevation	Measuring Point Elevatin	Depth to Top of Screen	Screen Length	Top of Screen Elevation	Base of Screen Elevation	Average Depth to Groundwater	Average Groundwater Elevation
	Northing	Easting	(inches)	(ft AMSL)	(ft AMSL)	(ft bgs)	(ft)	(ft AMSL)	(ft AMSL)	(ft bgs)	(ft AMSL)
GMA3-16	537542.70	138665.00	2.00	989.80	989.26	2.00	10.00	987.80	977.80	1.5	988.27
GMA3-17	536497.80	138261.50	4.00	998.36	1,002.00	7.00	10.00	991.36	981.36	12.2	986.18
OBG-2	537209.10	139475.80	3.00	992.24	992.20	3.00	11.40	989.24	977.84	5.0	987.21
UB-MW-10	536908.10	138278.30	1.00	996.21	995.99	8.00	10.00	988.21	978.21	9.8	986.45
UB-PZ-1	536336.80	138383.90	1.00	999.00	999.70	9.00	5.00	990.00	985.00	12.2	986.77
UB-PZ-2	536726.10	138735.70	1.00	994.40	994.77	4.00	10.00	990.40	980.40	9.2	985.23
UB-PZ-3	536480.10	138110.00	1.00	998.55	998.15	11.00	5.00	987.55	982.55	12.3	986.28
GMA 4 Monito	ring Wells										
60B-R	536021.40	138133.00	2.00	1,003.04	1,002.79	12.00	10.0	991.04	981.04	15.4	987.62
GMA4-3	536289.60	137999.80	2.00	1,004.14	1,003.95	16.09	10.0	988.05	978.05	17.5	986.64
RF-14	536833.60	137753.70	4.00	1,001.90	1,001.59	7.00	15.0	994.90	979.90	11.2	990.74

#### Notes:

- 1. The listed wells have been utilized for baseline/interim groundwater quality sampling, groundwater elevation/NAPL monitoring, or hydraulic conductivity testing.
- 2. ft AMSL: Feet above mean sea level
- 3. ft bgs: Feet below ground surface
- 4. ft: Feet
- 5. N/A: Information not available.

Groundwater Elevation Data - Spring 2008

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

Table 4

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts

Well Number	Overall Average Groundwater Elevation	Average Spring Groundwater Elevation	Spring 2008 Groundwater Elevation	Thickness	Spring 2008 DNAPL Thickness
	(ft AMSL)	(ft AMSL)	(ft AMSL)	(ft)	(ft)
<b>GMA3 Monito</b>	oring Wells Screened	at Water Table			
02A	985.73	986.64	986.93	0.00	0.00
6B-R	986.63	987.26	987.06	0.00	0.00
16B-R	985.59	985.90	986.06	0.00	0.00
39B-R	985.50	986.22	986.50	0.00	0.00
43B	987.75	987.94	988.44	0.00	0.00
50B	988.67	989.08	989.30	0.00	0.00
51-05	986.71	986.85	987.69	0.00	0.00
51-06	987.04	987.26	988.25	0.00	0.00
51-07	987.11	987.04	987.92	0.00	0.00
51-08	986.54	986.83	987.71	0.02	0.00
51-09	987.96	988.22	988.61	0.00	0.00
51-11	986.31	986.98	987.58	0.00	0.00
51-12	989.50	989.58	989.50	0.00	0.00
51-13	989.27	987.52	<987.61	0.00	0.00
51-14	986.58	986.74	987.36	0.00	0.00
51-15	986.65	986.89	987.75	0.01	0.00
51-16R	986.86	986.92	987.67	0.01	0.00
51-17	986.81	987.00	987.80	0.02	0.00
51-18	986.70	986.83	987.56	0.00	0.00
51-19	986.46	986.74	987.40	0.01	0.00
51-21	986.84	986.61	987.61	<0.01	0.00
54B-R	986.80	987.30	987.86	0.00	0.00
59-01	987.59	987.11	988.10	0.00	0.00
59-03R	986.69	986.89	987.95	0.01	0.00
59-07	986.79	986.96	987.81	0.01	0.00
78B-R	987.48	987.78	988.63	0.00	0.00
82B-R	985.33	986.53	986.66	0.00	0.00
89B	983.48	983.35	983.55	0.00	0.00
90B	982.56	983.25	983.58	0.00	0.00
95B-R	980.75	980.97	981.00	0.00	0.00
111B-R	983.12	983.79	984.01	0.00	0.00
114B-R	979.36	979.77	980.37	0.00	0.00
115B	979.89	980.25	981.19	0.00	0.00
GMA3-2	984.34	985.17	985.78	0.00	0.00
GMA3-3	988.81	989.85	989.90	0.00	0.00
GMA3-4	987.39	988.28	989.10	0.00	0.00
GMA3-5	985.96	986.66	986.66	0.00	0.00
GMA3-6	985.49	985.68	982.29	0.00	0.00
GMA3-7	987.36	987.58	988.22	0.00	0.00
GMA3-8	985.68	986.96	986.92	0.00	0.00
GMA3-9	987.59	988.46	989.21	0.00	0.00
GMA3-10	987.47	987.54	988.03	0.81	0.00
GMA3-11	987.68	987.76	988.13	0.00	0.00
GMA3-11	987.42	987.37	987.93	0.12	0.00
GMA3-13	987.61	987.53	987.98	0.12	0.00
GMA3-14	987.84	987.65	988.10	0.00	0.00
GMA3-14 GMA3-15	987.06	986.44	986.64	0.00	0.00
GMA3-16	988.27	988.66	988.86	0.00	0.00
GMA3-16	986.18	986.70	986.70	<0.01	0.00
OBG-2	987.21	987.84	987.99	0.00	0.00
UB-MW-10	986.76	986.94	987.83	0.00	0.00
UB-PZ-3	986.65	986.66	987.83	0.57	0.00

Table 4
Groundwater Elevation Data - Spring 2008

Well Number	Overall Average Groundwater Elevation	Average Spring Groundwater Elevation	Elevation Thickness		Spring 2008 DNAPL Thickness	
	(ft AMSL)	(ft AMSL)	(ft AMSL)	(ft)	(ft)	
<b>GMA4 Monito</b>	oring Wells Screened	at Water Table				
60B-R	987.62	988.25	989.69	0.00	0.00	
GMA4-3	986.64	987.06	988.04	0.00	0.00	
RF-14	990.74	993.45	994.85	0.00	0.00	
Monitoring W	ells Screened Below	Water Table				
16A	984.59	985.46	985.57	0.00	0.00	
16C-R	983.67	985.41	986.15	0.00	0.00	
39D-R	985.95	986.56	987.03	0.00	0.00	
39E	986.49	987.12	987.41	0.00	0.00	
43A	986.81	987.89	988.97	0.00	0.00	
89A	982.81	983.66	983.60	0.00	0.00	
89D-R	983.00	983.77	983.82	0.00	0.00	
90A	982.79	983.56	982.69	0.00	0.00	
95A	980.94	981.08	981.12	0.00	0.00	
111A-R	983.61	984.67	984.72	0.00	0.00	
114A	979.64	980.19	980.99	0.00	0.00	
115A	978.89	981.36	982.02	0.00	0.00	
GMA 3 Staff (	Gauges					
GMA3-SG-1	NA	NA	993.23	0.00	0.00	
GMA3-SG-2	NA	NA	984.16	0.00	0.00	
GMA3-SG-3	NA	NA	994.41	0.00	0.00	
GMA3-SG-4	NA	NA	989.42	0.00	0.00	

#### Notes:

- 1. Groundwater elevation/NAPL thickness data collected on April 15 and 16, 2008.
- 2. Groundwater elevations denoted <## indicate that the well was dry on the date measured and the referenced elevation represents the base of well elevation.
- 3. Average groundwater elevations based on available seasonal groundwater elevation data since 2000.
- 4. NA Data Not Available

Table 5
LNAPL Monitoring/Manual Recovery Data Summary

Number of		Measuring	Depth t	o Water	LNA	APL Observat	ions	Manual LNAP	Manual LNAPL Recovery (7)	
Well Name	Measurements	Point Elevation (Feet AMSL)	Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (liters)	LNAPL Recovery (Gallons)	
GMA 3 Monitor	ring Wells									
002A	2	994.16	7.23	7.54	0			0.00	0.00	
6B-R	2	993.62	6.56	6.76	0			0.00	0.00	
16A	2	991.77	6.20	6.48	0			0.00	0.00	
16B-R	2	994.87	8.81	8.98	0			0.00	0.00	
16C-R	2	993.23	7.08	7.30	0			0.00	0.00	
39B-R	3	991.97	5.47	5.65	0			0.00	0.00	
39D-R	3	994.73	7.70	7.99	0			0.00	0.00	
39E	2	992.21	4.80	4.90	0			0.00	0.00	
43A	3	993.79	4.82	4.93	0			0.00	0.00	
43B	3	993.61	5.14	5.17	0			0.00	0.00	
50B	1	991.76	2.46	2.46	0			0.00	0.00	
51-05	7	996.44	3.78	9.99	0			0.00	0.00	
51-06	6	997.36	9.11	10.60	0			0.00	0.00	
51-07	6	997.08	9.16	10.60	0			0.00	0.00	
51-08	27	997.08	9.30	12.03	27	0.01	1.13	3.02	0.80	
51-09	6	997.70	9.09	10.40	0			0.00	0.00	
51-11	6	994.37	6.60	8.10	0			0.00	0.00	
51-12	6	996.55	6.85	7.75	0			0.00	0.00	
51-13	6 <sup>4</sup>	997.42	Dry at 9.82-9.8	33 feet						
51-14	8	996.77	9.30	11.48	0			0.00	0.00	
51-15	7	996.43	8.69	10.11	7	0.01	0.13	0.07	0.02	
51-16R	7	996.39	8.73	10.04	4	0.01	0.05	0.00	0.00	
51-17	7	996.43	8.65	10.99	7	0.02	1.23	1.01	0.27	
51-18	6	997.12	9.56	10.70	0			0.00	0.00	
51-19	7	996.43	9.02	10.74	7	0.01	0.59	0.39	0.10	
51-21	26	1,001.49	13.70	15.69	25	<0.01	0.1	0.00	0.00	

Table 5
LNAPL Monitoring/Manual Recovery Data Summary

	Number of	Measuring Point	Depth t	o Water	LNA	APL Observat	ions	Manual LNAP	L Recovery <sup>(7)</sup>
Well Name	Measurements	Elevation (Feet AMSL)	Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (liters)	LNAPL Recovery (Gallons)
54B-R	1	991.49	3.63	3.63	0			0.00	0.00
59-01	7	997.52	9.41	11.04	0			0.00	0.00
59-03R	7	997.64	9.70	12.30	7	0.01	1.6	2.59	0.68
59-07	7	997.96	9.36	12.18	7	0.01	0.78	0.53	0.14
78B-R	6	988.83	0.15	0.60	0			0.00	0.00
82B-R	2	989.90	3.24	3.47	0			0.00	0.00
89A	2	985.76	2.16	2.60	0			0.00	0.00
89B	2	986.03	2.48	2.91	0			0.00	0.00
89D-R	2	987.11	3.29	3.91	0			0.00	0.00
90A	2	988.07	5.38	5.47	0			0.00	0.00
90B	2	989.10	5.52	6.70	0			0.00	0.00
95A	2	987.18	6.06	6.81	0			0.00	0.00
95B-R	2	986.24	5.24	5.79	0			0.00	0.00
111A-R	2	997.35	12.63	13.27	0			0.00	0.00
111B-R	2	997.48	13.47	14.30	0			0.00	0.00
114A	2	986.16	5.17	5.98	0			0.00	0.00
114B-R	2	985.54	5.17	5.99	0			0.00	0.00
115A	2	988.53	6.51	8.12	0			0.00	0.00
115B	2	990.90	9.71	11.51	0			0.00	0.00
GMA3-2	1	991.94	6.16	6.16	0			0.00	0.00
GMA3-3	1	990.45	0.55	0.55	0			0.00	0.00
GMA3-4	1	994.60	5.50	5.50	0			0.00	0.00
GMA3-5	1	993.67	7.01	7.01	0			0.00	0.00
GMA3-6	1	997.49	15.20	15.20	0			0.00	0.00
GMA3-7	2	1,000.17	11.95	13.29	0			0.00	0.00
GMA3-8	1	996.24	9.32	9.32	0			0.00	0.00
GMA3-9	1	992.39	3.18	3.18	0			0.00	0.00

Table 5
LNAPL Monitoring/Manual Recovery Data Summary

	Novebound	Measuring	Depth t	o Water	LNAPL Observations			Manual LNAP	L Recovery (7)
Well Name	Number of Measurements	Point Elevation (Feet AMSL)	Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (liters)	LNAPL Recovery (Gallons)
GMA3-10	26	997.54	9.72	11.55	26	0.02	0.95	4.57	1.21
GMA3-11	24	997.25	8.98	12.40	0			0.00	0.00
GMA3-12	27	997.84	9.80	11.88	27	0.02	0.21	0.58	0.15
GMA3-13	26	997.73	9.59	11.65	22	0.01	0.48	1.31	0.35
GMA3-14	5	997.42	9.32	10.78	0			0.00	0.00
GMA3-15	2	996.74	10.10	10.92	0			0.00	0.00
GMA3-16	24	989.26	0.40	1.12	0			0.00	0.00
GMA3-17 <sup>6</sup>	27	1,002.00	15.18	16.80	25	<0.01	0.43	1.11	0.29
OBG-2	1	992.20	4.21	4.21	0			0.00	0.00
UB-MW-10	6	995.99	8.16	9.50	0			0.00	0.00
UB-PZ-3	7	998.15	10.85	12.03	7	0.11	0.64	0.30	0.08
GMA 4 Monito	ring Wells (Adjac	cent to GMA 3)							
RF-14	1	1,001.59	6.74	6.74	0			0.00	0.00
GMA4-3	6	1,003.95	15.91	18.70	0			0.00	0.00
60B-R	1	1,002.79	13.1	13.10	0			0.00	0.00

Total Amount of LNAPL Manually Recovered - January 2008 through June 2008: 15.47 liters

4.09 gallons

#### Notes:

- 1. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
- 2. ft BMP feet Below Measuring Point.
- 3. ft AMSL Feet Above Mean Sea Level
- 4. Groundwater was not present in the well at the time measurements were conducted.
- 5. ft AMSL Feet Above Mean Sea Level
- 6. LNAPL recovery data for well GMA3-17 represents manual recovery prior to initiation of automated recovery operations in February 2008.
- 7. Automated LNAPL recovery data for wells GMA3-17 and well 51-21 is provided in Table 6.

Table 6 Automated LNAPL Recovery System Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 **Groundwater Management Area 3** 

General Electric Company - Pittsfield, Massachusetts

Removal Action Area / Recovery System	January 2008 LNAPL Recovery (Gallons)	February 2008 LNAPL Recovery (Gallons)	March 2008 LNAPL Recovery (Gallons)	April 2008 LNAPL Recovery (Gallons)	May 2008 LNAPL Recovery (Gallons)	June 2008 LNAPL Recovery (Gallons)	Spring 2008 Total LNAPL Recovery (Gallons)
51-21	3.7	4.2	1.4	1.6	1.4	0.5	12.8
GMA3-17	<sup>1</sup>	5.1	6.5	2.7	0.2	0.0	14.5

**GMA 3 TOTAL** 

Total Amount of LNAPL Recovered by Automated Skimmer Systems - January 2008 through June 2008:

27.3

Notes:

Recovery Well GMA3-17 was placed into service on February 7, 2008.

Table 7
Field Parameter Measurements - Spring 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Number	Turbidity (NTU)	Temperature (degrees Celsius)	pH (standard units)	Specific Conductivity (mS/cm)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
2A	1	10.73	8.24	0.394	-80.2	1.90
6B-R	3	7.33	7.17	0.644	-95.9	1.20
16A	27	14.77	7.93	5.503	-161.9	0.63
16B-R	3	10.65	7.25	1.805	-49.5	2.52
16C-R	5	11.05	7.97	0.244	136.5	1.66
39B-R	3	8.31	7.15	0.983	-39.2	3.67
39D-R	12	9.03	8.57	0.309	10.3	3.98
39E	10	11.64	7.04	0.260	-60.9	0.48
43A	10	8.86	7.20	1.081	-82.5	0.47
43B	4	8.64	7.34	1.176	-91.9	4.90
51-14	0	8.36	6.39	0.462	60.5	6.51
82B-R	1	6.43	6.29	0.566	2.8	0.81
89A	26	11.80	7.74	1.909	-170.3	0.53
89B	8	11.18	6.77	0.950	-67.3	1.32
89D-R	4	11.22	8.08	2.698	-102.8	1.08
90A	10	8.86	7.99	0.428	-157.6	3.62
90B	2	7.42	7.15	0.279	-116.8	0.84
95A	20	12.30	7.63	0.280	-139.4	1.01
95B-R	7	9.70	7.08	1.148	-53.8	0.48
111A-R	2	11.47	8.22	0.723	-11.3	2.06
111B-R	11	14.55	7.67	0.722	29.5	6.11
114A	11	14.99	8.08	0.383	-264.8	0.70
114B-R	6	12.68	7.19	1.019	-68.9	1.70
115A	4	8.64	7.80	0.308	-131.1	4.04
115B	2	7.44	6.86	0.514	-136.2	1.60

#### Notes:

- 1. Measurements collected during spring 2008 GMA 3 baseline monitoring program sampling activities conducted between April 30 and May 15, 2008.
- 2. Well parameters were generally monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
- 3. NTU Nephelometric Turbidity Units
- 4. mS/cm Millisiemens per centimeter
- 5. mV Millivolts
- 6. mg/L Milligrams per liter (ppm)

# Table 8 Comparison of Groundwater Analytical results to MCP Method 1 GW-2 Standards

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:		16B-R 05/01/08	51-14 05/02/08		
Volatile Organics						
Benzene		2	0.00075 J	ND(0.0010)		
Carbon Tetrach	loride	0.002	ND(0.0010)	0.0013		
Chlorobenzene		0.2	0.0011	ND(0.0010)		
Chloroform		0.05	ND(0.0010)	0.0039		
Trichloroethene		0.03	0.00044 J	ND(0.0010)		
Total VOCs		5	0.0023 J	0.0052		

#### Notes:

- Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- 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 Only detected volatiles are summarized and presented for the MCP Method 1 GW-2 Standards Comparison.
- 4. Total VOC results are being compared to the notification level in the SOW of 5 ppm, as there is no MCP Method 1 GW-2 Standard for Total VOCs.

#### Data Qualifiers:

#### Organics (volatiles)

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

Table 9
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

	Sample ID:	Method 1 GW-3	6B-R	82B-R	89B	90B	95B-R	111B-R	114B-R	
Parameter	Date Collected:	Standards	05/02/08	05/02/08	05/05/08	05/14/08	05/08/08	05/14/08	05/13/08	
Volatile Organ	Volatile Organics									
Benzene		10	4.3	NA	0.0067	ND(0.0010)	2.3	ND(0.0010)	0.020 J	
Chlorobenzene		1	2.5	NA	0.048	ND(0.0010)	10	ND(0.0010)	1.4	
Toluene		40	0.086 J	NA	ND(0.0020)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.040)	
PCBs-Filtered										
None Detected			NA		NA	NA	NA	NA		
Semivolatile O	Semivolatile Organics									
None Detected			NA	NA		NA		NA	NA	
Natural Attenu	ation Parameters									
Alkalinity		Not Listed	NA	NA	160	110	240	160	230	
Chloride		Not Listed	NA	NA	180	8.5	160	4.3	160	
Dissolved Iron		Not Listed	NA	NA	0.902	3.68	0.0214 J	0.0449 J	0.0461 B	
Dissolved Orga	nic Carbon	Not Listed	NA	NA	5.28	5.77	3.92	1.31	4.61	
Ethane		Not Listed	NA	NA	ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10)	
Ethene		Not Listed	NA	NA	ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10)	
Methane		Not Listed	NA	NA	0.338	0.0700	0.871	ND(0.00720)	1.32	
Nitrate Nitrogen	1	Not Listed	NA	NA	ND(0.300)	ND(0.300)	ND(0.300)	4.29	ND(0.300)	
Nitrite Nitrogen		Not Listed	NA	NA	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(3.00)	
Sulfate (turbidin	netric)	Not Listed	NA	NA	0.582	12.1	4.76	169	9.43	

#### Notes:

- Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- 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. NA Not Analyzed.
- 4. ND Analyte was not detected. The number in parenthesis is the associated detection limit.
- With the exception of natural attenuation parameters only those constituents detected in one or more samples are summarized.
- Shading indicates that value exceeds GW-3 Standards.
- Indicates that all constituents for the parameter group were not detected.

#### Data Qualifiers:

#### Organics (volatiles, semivolatiles)

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

Table 10
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Sample ID:	MCP UCL	2A	6B-R	16A	16B-R			
Parameter Date Collected:	for GroundWater	05/01/08	05/02/08	05/01/08	05/01/08			
Volatile Organics								
1,4-Dioxane	100	ND(1000) J [ND(1000) J]	ND(20) J	ND(200) J	ND(0.10) J			
2-Butanone	100	ND(50) J [ND(50) J]	ND(1.0) J	ND(10) J	ND(0.0050) J			
Acetone	100	ND(50) J [ND(50) J]	ND(1.0) J	ND(10) J	ND(0.0050) J			
Benzene	100	21 [23]	4.3	13	0.00075 J			
Carbon Tetrachloride	50	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)			
Chlorobenzene	10	77 [97]	2.5	37	0.0011			
Chloroform	100	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)			
Toluene	100	1.1 J [1.3 J]	0.086 J	0.62 J	ND(0.0010)			
Trichloroethene	50	6.4 J [7.5 J]	ND(0.20)	ND(2.0)	0.00044 J			
PCBs-Filtered								
None Detected		NA	NA	NA	NA			
Semivolatile Organics								
1,2-Dichlorobenzene	20	NA	NA	NA	NA			
1,3-Dichlorobenzene	100	NA	NA	NA	NA			
1,4-Dichlorobenzene	80	NA	NA	NA	NA			
2-Chlorophenol	100	ND(0.0051) [ND(0.0051)]	NA	0.022	NA			
4-Chlorophenol	Not Listed	ND(0.0051) [ND(0.0051)]	NA	0.062	NA			
Naphthalene	100	NA	NA	NA	NA			
Phenol	100	NA	NA	NA	NA			

Table 10
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

	Sample ID:	MCP UCL	16C-R	39B-R	39D-R	39E		
Parameter	<b>Date Collected:</b>	for GroundWater	05/01/08	04/30/08	04/30/08	05/06/08		
Volatile Organics								
1,4-Dioxane		100	ND(0.10) J	ND(40) J	ND(0.10) J	ND(0.10) J		
2-Butanone		100	ND(0.0050) J	ND(2.0) J	ND(0.0050) J	ND(0.0050) J		
Acetone		100	ND(0.0050) J	ND(2.0) J	ND(0.0050) J	ND(0.0050) J		
Benzene		100	ND(0.0010)	0.67	0.00033 J	ND(0.0010)		
Carbon Tetra	achloride	50	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)		
Chlorobenze	ene	10	ND(0.0010)	16	0.040	0.00024 J		
Chloroform		100	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)		
Toluene		100	ND(0.0010)	0.21 J	0.00015 J	0.00025 J		
Trichloroethe	ene	50	ND(0.0010)	0.20 J	0.00017 J	ND(0.0010)		
PCBs-Filter	ed							
None Detect	ed		NA	NA	NA	NA		
Semivolatile	organics							
1,2-Dichlorol	benzene	20	NA	0.12	NA	NA		
1,3-Dichlorol	benzene	100	NA	0.0090 J	NA	NA		
1,4-Dichlorol	benzene	80	NA	0.25	NA	NA		
2-Chlorophe	nol	100	NA	ND(0.053)	NA	NA		
4-Chlorophe	nol	Not Listed	NA	NA	NA	NA		
Naphthalene	)	100	NA	0.091	NA	NA		
Phenol		100	NA	0.038 J	NA	NA		

Table 10 Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Sample ID:		MCP UCL	43A	43B	51-14
Parameter	Date Collected:	for GroundWater	04/30/08	04/30/08	05/02/08
Volatile Org	janics				
1,4-Dioxane		100	0.18 J	0.041 J [ND(0.10) J]	ND(0.10) J
2-Butanone		100	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Acetone		100	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Benzene		100	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Carbon Tetra	achloride	50	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.0013
Chlorobenze	ene	10	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroform		100	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.0039
Toluene		100	ND(0.0010)	ND(0.0010) [0.00019 J]	ND(0.0010)
Trichloroeth	ene	50	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
PCBs-Filter	ed				
None Detect	ted		NA	NA	NA
Semivolatile	e Organics				
1,2-Dichloro	benzene	20	NA	NA	NA
1,3-Dichloro	benzene	100	NA	NA	NA
1,4-Dichloro	benzene	80	NA	NA	NA
2-Chlorophe	enol	100	NA	NA	NA
4-Chlorophe	enol	Not Listed	NA	NA	NA
Naphthalene		100	NA	NA	NA
Phenol		100	NA	NA	NA

Table 10
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

	Sample ID:	MCP UCL	82B-R	89A	89B				
Parameter	<b>Date Collected:</b>	for GroundWater	05/02/08	05/05/08	05/05/08				
Volatile Organics									
1,4-Dioxane		100	NA	ND(100) J	ND(0.20) J				
2-Butanone		100	NA	ND(5.0) J	ND(0.010) J				
Acetone		100	NA	ND(5.0) J	ND(0.010) J				
Benzene		100	NA	7.1	0.0067				
Carbon Tetra	chloride	50	NA	ND(1.0)	ND(0.0020)				
Chlorobenzer	ne	10	NA	26	0.048				
Chloroform		100	NA	ND(1.0)	ND(0.0020)				
Toluene		100	NA	ND(1.0)	ND(0.0020)				
Trichloroethe	ne	50	NA	ND(1.0)	ND(0.0020)				
PCBs-Filtere	ed								
None Detecte	ed			NA	NA				
Semivolatile	Organics								
1,2-Dichlorob	enzene	20	NA	NA	NA				
1,3-Dichlorob	enzene	100	NA	NA	NA				
1,4-Dichlorob	enzene	80	NA	NA	NA				
2-Chloropher	nol	100	NA	ND(0.0052)	ND(0.0051)				
4-Chloropher	nol	Not Listed	NA	ND(0.0052)	ND(0.0051)				
Naphthalene		100	NA	NA	NA				
Phenol		100	NA	NA	NA				

Table 10
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

	Sample ID:	MCP UCL	89D-R	90A	90B	95A		
Parameter	Date Collected:	for GroundWater	05/05/08	05/14/08	05/14/08	05/14/08		
Volatile Organics								
1,4-Dioxane		100	ND(160) J	ND(0.10) J	ND(0.10) J	ND(0.10) J		
2-Butanone		100	ND(8.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J		
Acetone		100	ND(8.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J		
Benzene		100	8.1	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Carbon Tetra	achloride	50	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Chlorobenze	ene	10	32	ND(0.0010)	ND(0.0010)	0.00035 J		
Chloroform		100	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Toluene		100	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Trichloroeth	ene	50	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
PCBs-Filter	ed							
None Detect	ted		NA	NA	NA	NA		
Semivolatile	e Organics							
1,2-Dichloro	benzene	20	NA	NA	NA	NA		
1,3-Dichloro	benzene	100	NA	NA	NA	NA		
1,4-Dichloro	benzene	80	NA	NA	NA	NA		
2-Chlorophe	enol	100	NA	NA	NA	ND(0.0052)		
4-Chlorophe	enol	Not Listed	NA	NA	NA	ND(0.0052)		
Naphthalene	)	100	NA	NA	NA	NA		
Phenol		100	NA	NA	NA	NA		

Table 10 Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

	Sample ID:	MCP UCL	95B-R	111A-R	111B-R	114A		
Parameter	Date Collected:	for GroundWater	05/08/08	05/06/08	05/14/08	05/13/08		
Volatile Organics								
1,4-Dioxane		100	ND(40) J	ND(0.10) J	ND(0.10) J	ND(0.10) J		
2-Butanone		100	ND(2.0) J	ND(0.0050) J	ND(0.0050) J	0.011 J		
Acetone		100	ND(2.0) J	ND(0.0050) J	ND(0.0050) J	0.15 J		
Benzene		100	2.3	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Carbon Tetra	achloride	50	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Chlorobenze	ene	10	10	ND(0.0010)	ND(0.0010)	0.00018 J		
Chloroform		100	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Toluene		100	ND(0.40)	0.00015 J	ND(0.0010)	ND(0.0010)		
Trichloroethe	ene	50	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
PCBs-Filter	ed							
None Detect	ted		NA	NA	NA			
Semivolatile	e Organics							
1,2-Dichloro	benzene	20	NA	NA	NA	NA		
1,3-Dichloro	benzene	100	NA	NA	NA	NA		
1,4-Dichloro	benzene	80	NA	NA	NA	NA		
2-Chlorophe	nol	100	ND(0.014)	NA	NA	NA		
4-Chlorophe	nol	Not Listed	ND(0.022)	NA	NA	NA		
Naphthalene	)	100	NA	NA	NA	NA		
Phenol		100	NA	NA	NA	NA		

Table 10 Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 **Groundwater Management Area 3** 

General Electric Compnay - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Sample ID:	MCP UCL	114B-R	115A	115B					
Parameter Date Collected:	for GroundWater	05/13/08	05/15/08	05/15/08					
Volatile Organics									
1,4-Dioxane	100	ND(4.0) J	ND(0.10) J	ND(0.10) J					
2-Butanone	100	ND(0.20) J	ND(0.0050) J	ND(0.0050) J					
Acetone	100	ND(0.20) J	ND(0.0050) J	ND(0.0050) J					
Benzene	100	0.020 J	ND(0.0010)	ND(0.0010)					
Carbon Tetrachloride	50	ND(0.040)	ND(0.0010)	ND(0.0010)					
Chlorobenzene	10	1.4	ND(0.0010)	ND(0.0010)					
Chloroform	100	ND(0.040)	ND(0.0010)	ND(0.0010)					
Toluene	100	ND(0.040)	ND(0.0010)	ND(0.0010)					
Trichloroethene	50	ND(0.040)	ND(0.0010)	ND(0.0010)					
PCBs-Filtered									
None Detected			NA	NA					
Semivolatile Organics									
1,2-Dichlorobenzene	20	NA	NA	NA					
1,3-Dichlorobenzene	100	NA	NA	NA					
1,4-Dichlorobenzene	80	NA	NA	NA					
2-Chlorophenol	100	NA	NA	NA					
4-Chlorophenol	Not Listed	NA	NA	NA					
Naphthalene	100	NA	NA	NA					
Phenol	100	NA	NA	NA					

#### Notes:

- 1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- 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. NA Not Analyzed.
- ND Analyte was not detected. The number in parenthesis is the associated detection limit.
- With the exception of natural attenuation parameters, only those constituents detected in one or more samples are summarized. Natural attenuation parameter results are presented in Table 11. Field duplicate sample results are presented in brackets.
- 6. Shading indicates that value exceeds UCL Standards.
- 7. -- Indicates that all constituents for the parameter group were not detected.
- 8.

#### Data Qualifiers:

### Organics (volatiles, 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.

#### Natural Attenuation Parameters

- B Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J Indicates that the associated numerical value is an estimated concentration.

Table 11
Natural Attenuation Parameter Analytical Results

	Sample ID:	2A	16A	16B-R	16C-R	39B-R
Parameter	Date Collected:	05/01/08	05/01/08	05/01/08	05/01/08	04/30/08
Volatile Orga	nics					
1,4-Dioxane		ND(1000) J [ND(1000) J]	ND(200) J	ND(0.10) J	ND(0.10) J	ND(40) J
2-Butanone		ND(50) J [ND(50) J]	ND(10) J	ND(0.0050) J	ND(0.0050) J	ND(2.0) J
Acetone		ND(50) J [ND(50) J]	ND(10) J	ND(0.0050) J	ND(0.0050) J	ND(2.0) J
Benzene		21 [23]	13	0.00075 J	ND(0.0010)	0.67
Chlorobenzen	е	77 [97]	37	0.0011	ND(0.0010)	16
Toluene		1.1 J [1.3 J]	0.62 J	ND(0.0010)	ND(0.0010)	0.21 J
Trichloroether	ne	6.4 J [7.5 J]	ND(2.0)	0.00044 J	ND(0.0010)	0.20 J
PCBs-Filtered	d					
None Detecte	d	NA	NA	NA	NA	NA
Semivolatile	Organics					
1,2-Dichlorobe	enzene	NA	NA	NA	NA	0.12
1,3-Dichlorobe	enzene	NA	NA	NA	NA	0.0090 J
1,4-Dichlorobe	enzene	NA	NA	NA	NA	0.25
2-Chloropheno	ol	ND(0.0051) [ND(0.0051)]	0.022	NA	NA	ND(0.053)
4-Chloropheno	ol	ND(0.0051) [ND(0.0051)]	0.062	NA	NA	NA
Naphthalene		NA	NA	NA	NA	0.091
Phenol		NA	NA	NA	NA	0.038 J
Natural Atten	uation Parameters					
Alkalinity		170 [170]	450	530	120	310
Chloride		8.9 [8.6]	1900	270	1.2	110
Ethane		ND(0.020) [ND(0.020)]	ND(0.10)	ND(0.10)	ND(0.020)	ND(0.020)
Dissolved Iron	)	ND(0.100) J	1.23	0.0246 J	ND(0.100) J	ND(0.100) J
Dissolved Org	anic Carbon	2.09 [2.17]	32.9	6.44	0.856	6.24
Ethene		ND(0.020) [ND(0.020)]	0.37	ND(0.10)	ND(0.020)	ND(0.020)
Methane		ND(0.00720) [ND(0.00720)]	1.91	1.52 J	ND(0.00720)	0.182
Nitrate Nitroge		ND(0.300) [ND(0.300)]	ND(0.300)	ND(0.300)	0.190 B	0.507
Nitrite Nitroge		ND(0.300) [ND(0.300)]	ND(3.00)	ND(3.00)	ND(0.300)	ND(0.300)
Sulfate (turbid	imetric)	22.2 [21.9]	0.951	15.7	6.38	5.61

Table 11
Natural Attenuation Parameter Analytical Results

Sample ID: Parameter Date Collected:	39D-R 04/30/08	39E 05/06/08	43A 04/30/08	43B 04/30/08	89A 05/05/08
Volatile Organics	0-7700700	00/00/00	0-1/00/00	0-400100	00/00/00
1,4-Dioxane	ND(0.10) J	ND(0.10) J	0.18 J	0.041 J [ND(0.10) J]	ND(100) J
2-Butanone	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(5.0) J
Acetone	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(5.0) J
Benzene	0.00033 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	7.1
Chlorobenzene	0.040	0.00024 J	ND(0.0010)	ND(0.0010) [ND(0.0010)]	26
Toluene	0.00015 J	0.00025 J	ND(0.0010)	ND(0.0010) [0.00019 J]	ND(1.0)
Trichloroethene	0.00017 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(1.0)
PCBs-Filtered		<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	, , , , , , , , , , , , , , , , , , , ,	<u> </u>
None Detected	NA	NA	NA	NA	NA
Semivolatile Organics					
1,2-Dichlorobenzene	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA NA	
2-Chlorophenol	NA	NA	NA	NA	ND(0.0052)
4-Chlorophenol	NA	NA	NA	NA	ND(0.0052)
Naphthalene	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA
Natural Attenuation Parameters					
Alkalinity	130	87.0	520	580 [580]	330
Chloride	5.5	25	22	53 [50]	380
Ethane	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10) [ND(0.10)]	ND(0.20)
Dissolved Iron	0.0401 J	1.21	ND(0.100) J	0.0246 J	ND(0.100) J
Dissolved Organic Carbon	0.844 B	4.35	2.03	2.77 [2.74]	7.00
Ethene	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10) [ND(0.10)]	ND(0.20)
Methane	ND(0.00720)	1.16	0.0180	1.51 [1.66]	4.36
Nitrate Nitrogen	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300) [ND(0.300)]	ND(0.300)
Nitrite Nitrogen	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300) [ND(0.300)]	ND(3.00)
Sulfate (turbidimetric)	20.4	ND(0.300)	103	ND(0.300) [ND(0.300)]	ND(0.300)

Table 11
Natural Attenuation Parameter Analytical Results

Parameter	Sample ID: Date Collected:	89B 05/05/08	89D-R 05/05/08	90A 05/14/08	90B 05/14/08	95A 05/14/08	95B-R 05/08/08
Volatile Organ		03/03/06	03/03/06	03/14/06	03/14/00	03/14/06	03/06/06
1,4-Dioxane	IIC5	ND(0.20) J	ND(160) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(40) J
2-Butanone		ND(0.20) J ND(0.010) J	ND(160) J	ND(0.10) J ND(0.0050) J	\ /	ND(0.10) J	ND(40) J
		\ /	( / -	. ,	ND(0.0050) J	\ /	\ /
Acetone		ND(0.010) J	ND(8.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(2.0) J
Benzene		0.0067	8.1	ND(0.0010)	ND(0.0010)	ND(0.0010)	2.3
Chlorobenzene	9	0.048	32	ND(0.0010)	ND(0.0010)	0.00035 J	10
Toluene		ND(0.0020)	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)
Trichloroethen		ND(0.0020)	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)
PCBs-Filtered							
None Detected	l	NA	NA	NA	NA	NA	NA
Semivolatile C	Organics						
1,2-Dichlorobe	nzene	NA	NA	NA	NA	NA	NA
1,3-Dichlorobe	nzene	NA	NA	NA	NA	NA	NA
1,4-Dichlorobe	nzene	NA	NA	NA	NA	NA	NA
2-Chloropheno	ol	ND(0.0051)	NA	NA	NA	ND(0.0052)	ND(0.014)
4-Chloropheno	ol	ND(0.0051)	NA	NA	NA	ND(0.0052)	ND(0.022)
Naphthalene		NA	NA	NA	NA	NA	NA
Phenol		NA	NA	NA	NA	NA	NA
Natural Attent	uation Parameters						
Alkalinity		160	320	180	110	130	240
Chloride		180	590	14	8.5	0.77	160
Ethane		ND(0.020)	ND(0.10)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.10)
Dissolved Iron		0.902	0.141 J	0.0211 J	3.68	ND(0.100) J	0.0214 J
Dissolved Orga	anic Carbon	5.28	8.52	1.60	5.77	0.660 B	3.92
Ethene		ND(0.020)	0.76	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.10)
Methane		0.338	1.62	0.0930	0.0700	0.156	0.871
Nitrate Nitroge	n	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)
Nitrite Nitroger		ND(0.300)	ND(3.00)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)
Sulfate (turbidi		0.582	2.68	14.2	12.1	4.41	4.76

Table 11
Natural Attenuation Parameter Analytical Results

Sample ID Parameter Date Collected		111B-R 05/14/08	114A 05/13/08	114B-R 05/13/08	115A 05/15/08	115B 05/15/08
	03/06/06	05/14/06	03/13/06	05/15/06	05/15/06	05/15/06
Volatile Organics	ND(0.40) I	LID(0.40)	ND(0.40) I	LID(4.0)	ND(0.40)	ND(0.40)
1,4-Dioxane	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(4.0) J	ND(0.10) J	ND(0.10) J
2-Butanone	ND(0.0050) J	ND(0.0050) J	0.011 J	ND(0.20) J	ND(0.0050) J	ND(0.0050) J
Acetone	ND(0.0050) J	ND(0.0050) J	0.15 J	ND(0.20) J	ND(0.0050) J	ND(0.0050) J
Benzene	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.020 J	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0010)	ND(0.0010)	0.00018 J	1.4	ND(0.0010)	ND(0.0010)
Toluene	0.00015 J	ND(0.0010)	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)
Trichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010) ND(0.040)		ND(0.0010)	ND(0.0010)
PCBs-Filtered						
None Detected	NA	NA			NA	NA
Semivolatile Organics						
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameter	S					
Alkalinity	140	160	170	230	150	220
Chloride	86	4.3	1.4	160	ND(0.3)	18
Ethane	ND(0.020)	ND(0.020)	ND(2.0)	ND(0.10)	ND(0.020)	ND(0.020)
Dissolved Iron	0.0432 J	0.0449 J	ND(0.100)	0.0461 B	ND(0.100)	ND(0.100)
Dissolved Organic Carbon	1.18	1.31	4.36	4.61	ND(1.0)	ND(1.0)
Ethene	ND(0.020)	ND(0.020)	ND(2.0)	ND(0.10)	ND(0.020)	ND(0.020)
Methane	ND(0.00720)	ND(0.00720)	10.9	1.32	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen	ND(0.300)	4.29	ND(0.300)	ND(0.300)	ND(0.300)	0.168 B
Nitrite Nitrogen	ND(0.300)	ND(0.300)	ND(0.300)	ND(3.00)	ND(0.300)	ND(0.300)
Sulfate (turbidimetric)	71.6	169	1.88	9.43	4.03	14.8

#### Notes:

- 1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- 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.
- 4. ND Analyte was not detected. The number in parenthesis is the associated detection limit.
- 5. With the exception of natural attenuation parameters only those constituents detected in one or more samples are summarized.
- 6. Field duplicate sample results are presented in brackets.

#### Data Qualifiers:

#### Organics (volatiles, semivolatiles)

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

#### Natural Attenuation Parameters

- B Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J Indicates that the associated numerical value is an estimated concentration.

Table 12
Proposed Interim Groundwater Quality Monitoring Program

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

		Sampli	ng Schedule &	Analyses		
Well Number	Monitoring Well Usage	Current Annual Analyses	Proposed <sup>(2,3)</sup> Annual Analyses	Proposed <sup>(4)</sup> Semi-Annual Analyses	Basis for Inclusion or Exclusion/Comments	
2A	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
6B-R	GW-3 Perimeter	VOC	VOC (3)	NONE	Average chlorobenzene concentrations are greater than the GW-3 Standard. Continued interim sampling and analysis proposed to assess increase in VOC concentrations observed since fall 2005, including exceedance of GW-3 Standard for benzene detected in fall 2007.	
16A	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
16B-R	GW-2 Sentinel/Natural Attenuation	See Note 6	See Note 6 (2)	PCB	Interim sampling proposed to continue under the natural attenuation monitoring program and to evaluate compliance with new MCP GW-2 standard for PCBs.	
16C-R	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
39B-R	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
39D-R	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
39E	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
43A	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
43B	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
51-14	GW-2 Sentinel	VOC	VOC (3)	PCB	Average carbon tetrachloride concentration is slightly below the GW-2 Standard (i.e., greater than 50%). Continued interim sampling for VOCs proposed to further assess. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.	
82B-R	GW-3 Perimeter	PCB	NONE	NONE	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB concentrations are well below revised GW-3 standard, no further PCB sampling proposed.	
89A	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
89B	GW-3 Perimeter/Natural Attenuation	See Note 5	See Note 5 (2)	NONE	Average chlorobenzene concentration is greater than the GW-3 Standard. Interim sampling to continue under the natural attenuation monitoring program.	
89D-R	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	

Table 12
Proposed Interim Groundwater Quality Monitoring Program

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

		Sampli	ing Schedule &	Analyses		
Well Number	Monitoring Well Usage	Current Annual Analyses	Proposed <sup>(2,3)</sup> Annual Analyses	Proposed <sup>(4)</sup> Semi-Annual Analyses	Basis for Inclusion or Exclusion/Comments	
90A	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
90B	GW-3 Perimeter/Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. No changes to the natural attenuation monitoring program are proposed.	
95A	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
95B-R	GW-3 Perimeter/Natural Attenuation	See Note 5	See Note 5 (2)	NONE	Average chlorobenzene concentration is greater than the GW-3 Standard. Interim sampling to continue under the natural attenuation monitoring program.	
111A-R	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
111B-R	GW-3 Perimeter/Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. No changes to the natural attenuation monitoring program are proposed.	
114A	Natural Attenuation / Supplemental	See Note 7	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed. PCBs have not been detected in this well and PCB concentrations in adjacent water table well 114B-R are well below revised GW-3 standard, no further supplemental PCB sampling proposed.	
114B-R	GW-3 Perimeter/Natural Attenuation	See Note 7	See Note 6 (2)	NONE	Average chlorobenzene concentration is slightly below the GW-3 Standard (i.e., greater than 50%). Interim sampling proposed to continue under the natural attenuation monitoring program. PCB concentrations are well below revised GW-3 standard, no further PCB sampling proposed.	
115A	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
115B	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
GMA3-1	GW-3 Perimeter	NONE	NONE	Deferred	Installation of this well has been deferred until re-routing of Unkamet Brook is completed.	
GMA3-2	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.	
GMA3-4	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.	

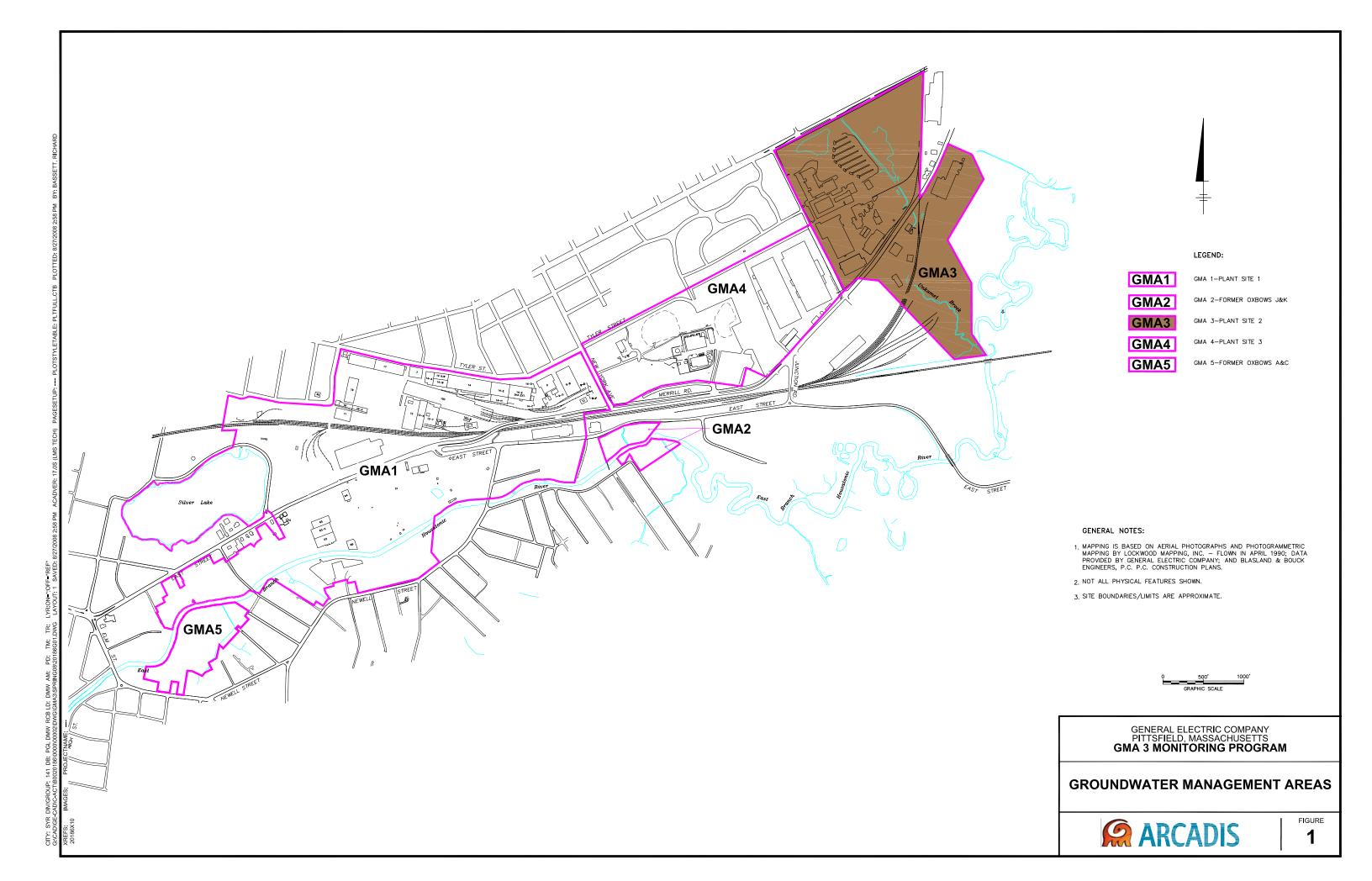
Table 12
Proposed Interim Groundwater Quality Monitoring Program

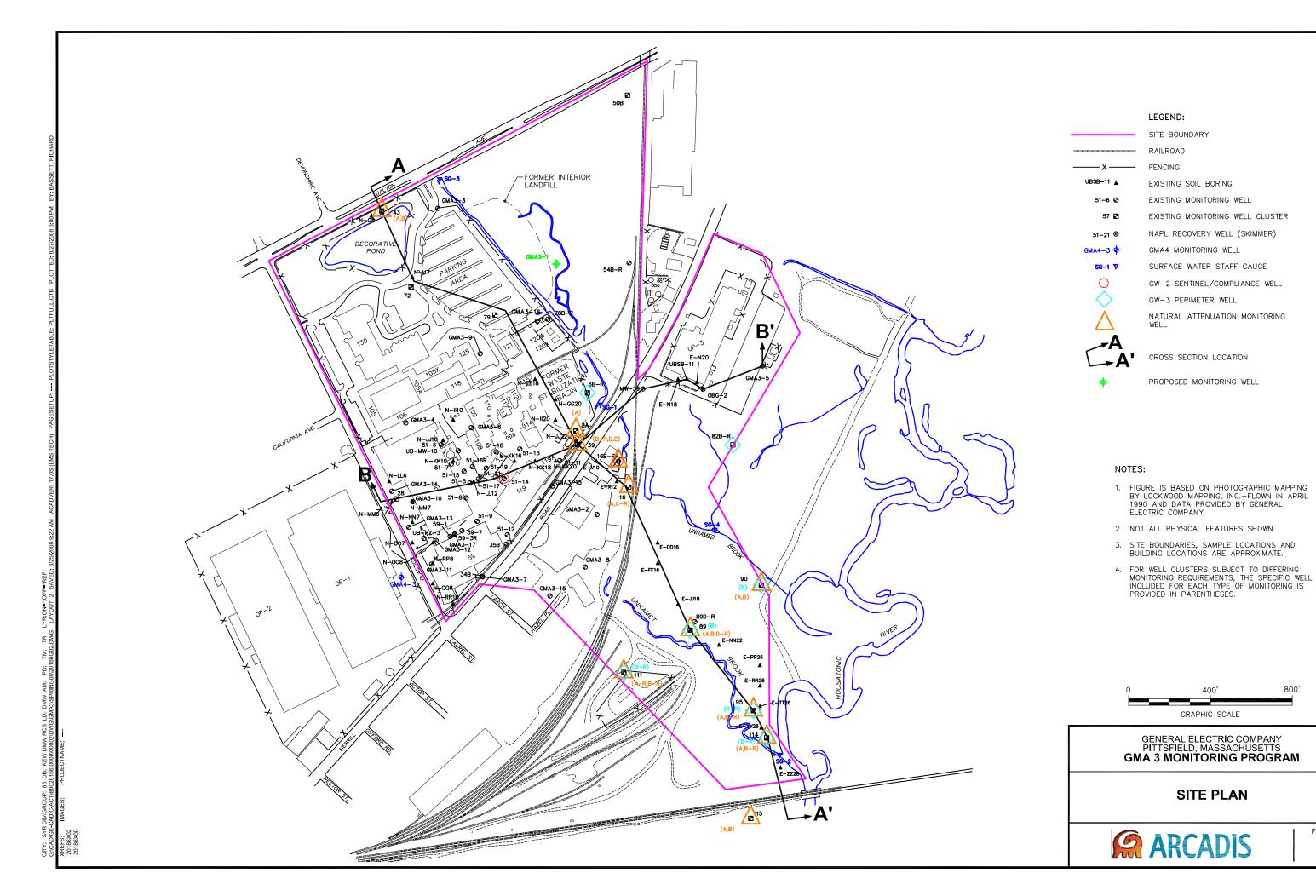
		Sampling Schedule & Analyses			
Well Number	Monitoring Well Usage		Semi-Annual	Basis for Inclusion or Exclusion/Comments	
GMA3-8	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.
GMA3-9	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.
OBG-2	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.

#### NOTES:

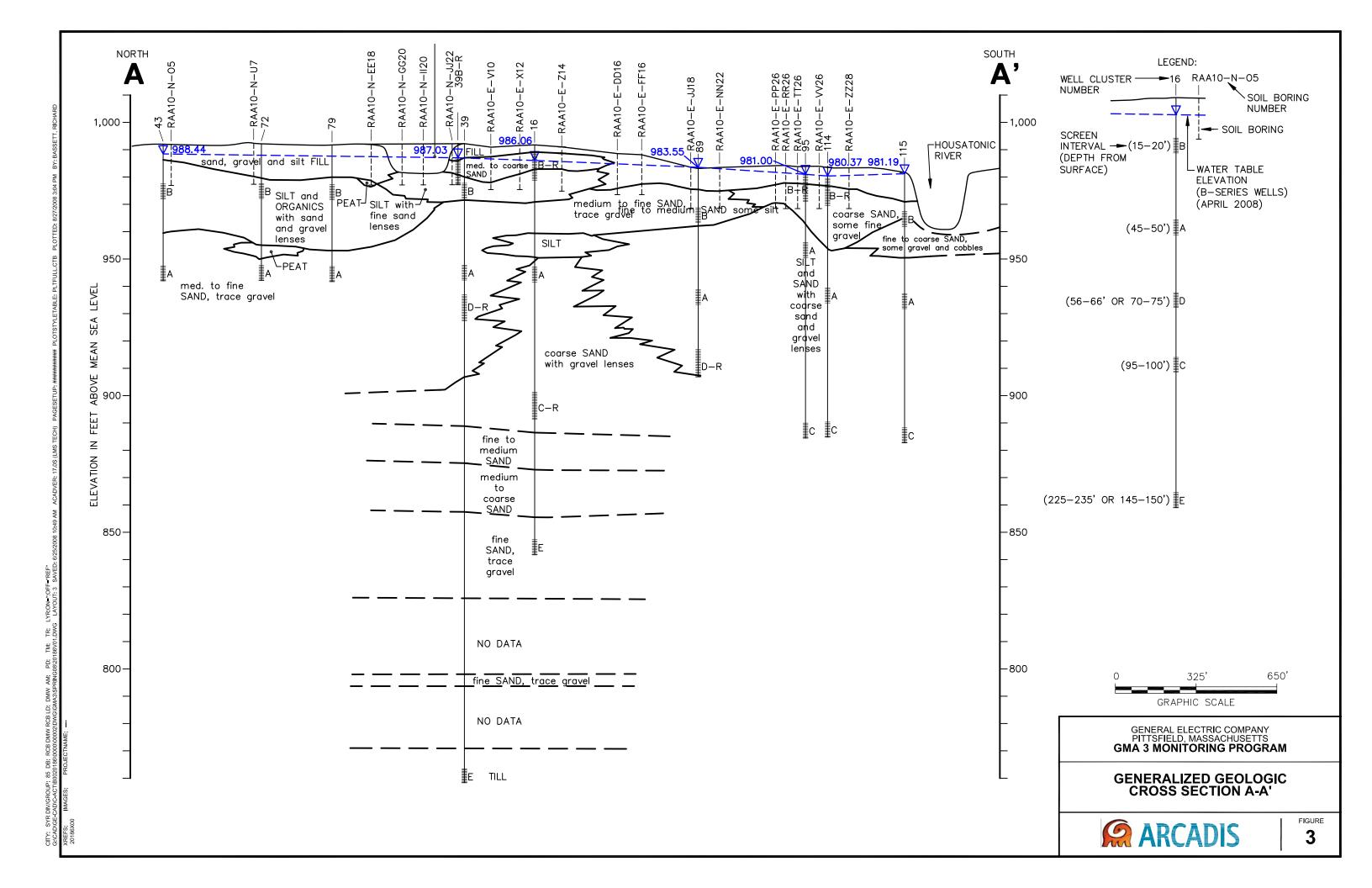
- 1. The wells listed above have been sampled as part of the baseline monitoring program at GMA 3 and/or during the interim groundwater quality monitoring program.
- 2. Wells sampled under the natural attenuation monitoring program are proposed to continue to be sampled on an annual basis in the spring.
- 3. Wells proposed for annual interim groundwater quality sampling, will be sampled for the listed parameters during the interim period between the completion of the baseline monitoring program and the initiation of a long-term monitoring program. The sampling schedule is proposed to alternate between the spring and fall seasons each year, with the next sampling round scheduled for fall 2009.
- 4. The wells proposed for semi-annual groundwater quality sampling 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.
- 5. Samples proposed to be analyzed for: VOCs, two SVOCs (2-chlorophenol and 4-chlorophenol), and Natural Attenuation Parameters (methane, ethane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
- 6. Samples proposed to be analyzed for: VOCs and Natural Attenuation Parameters (methane, ethane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
- 7. Samples analyzed for: VOCs and Natural Attenuation Parameters (methane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron) during the spring natural attenuation sampling rounds, and PCBs (filtered samples only) during the alternating spring/fall interim sampling rounds.
- 8. All analyses for PCB and metals will be performed on filtered samples only.

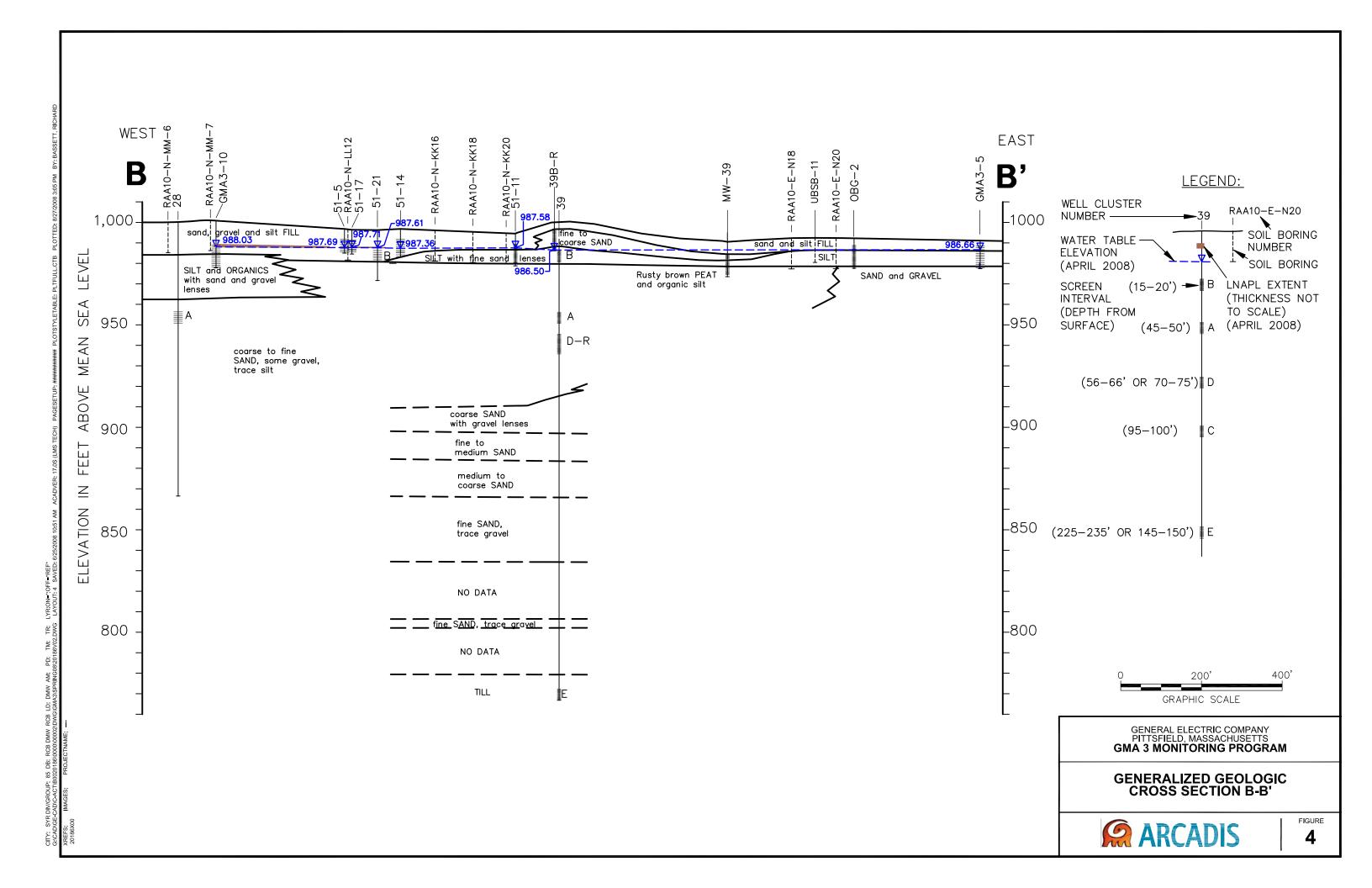
Figures

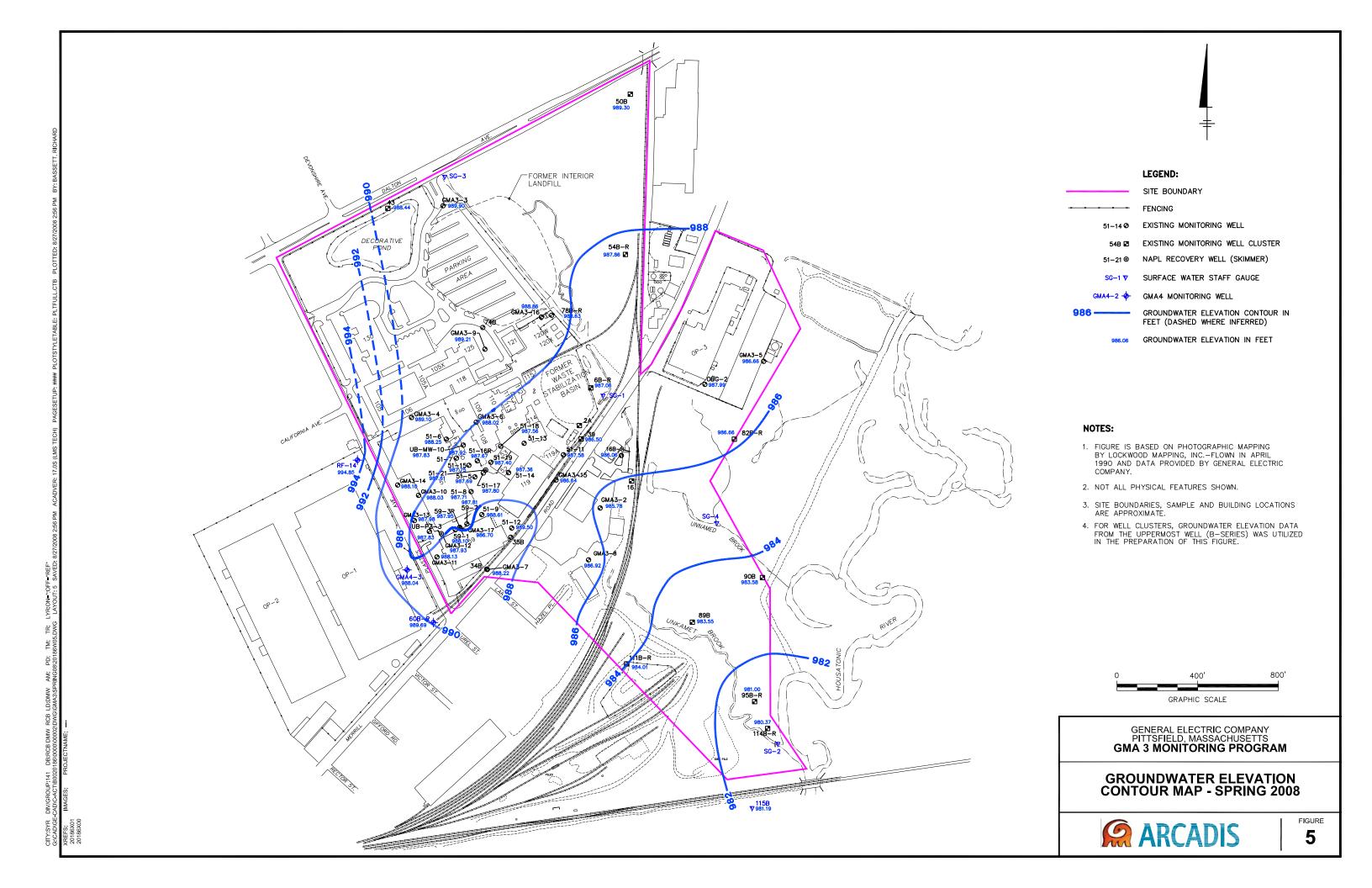


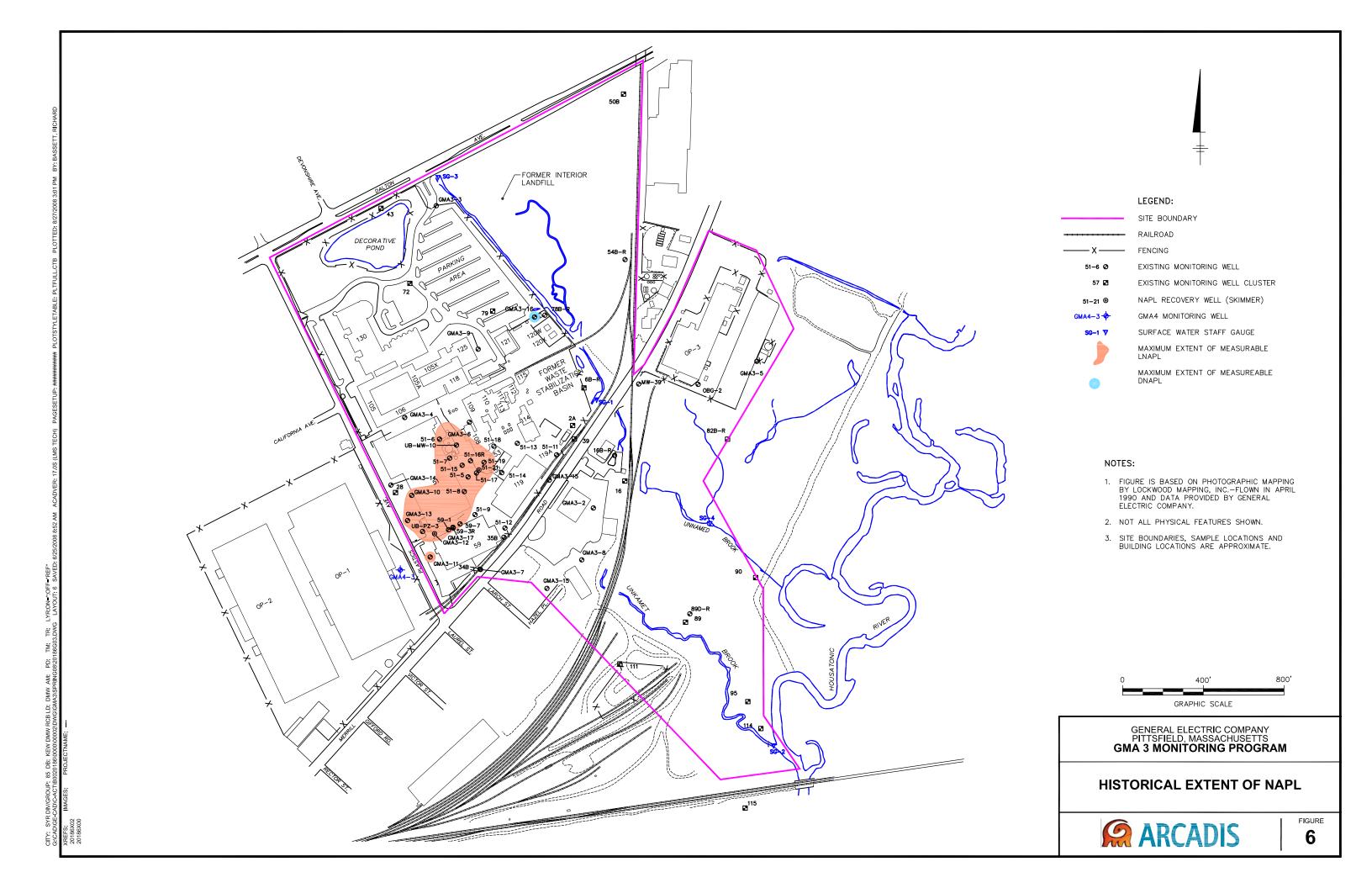


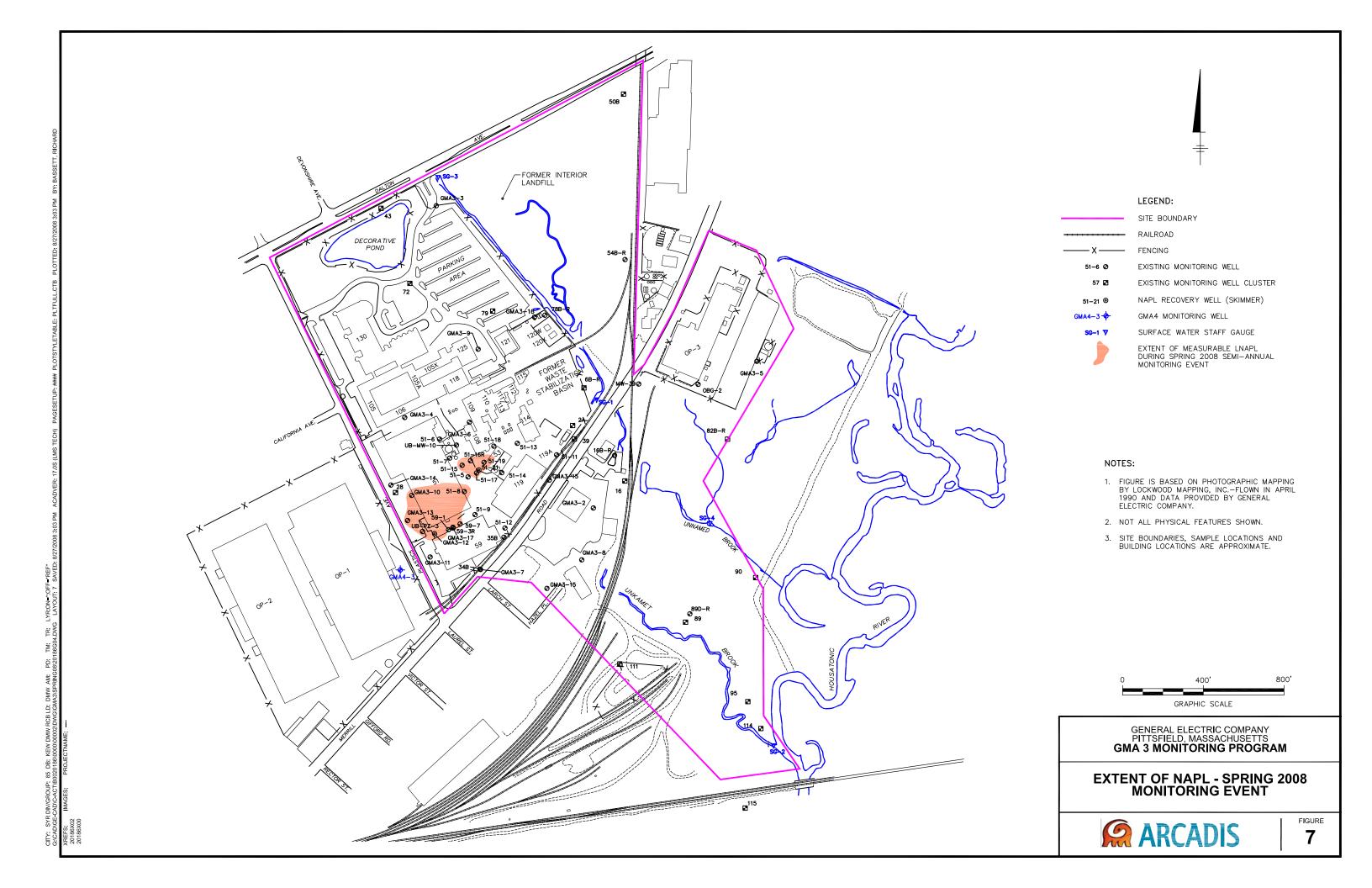
FIGURE

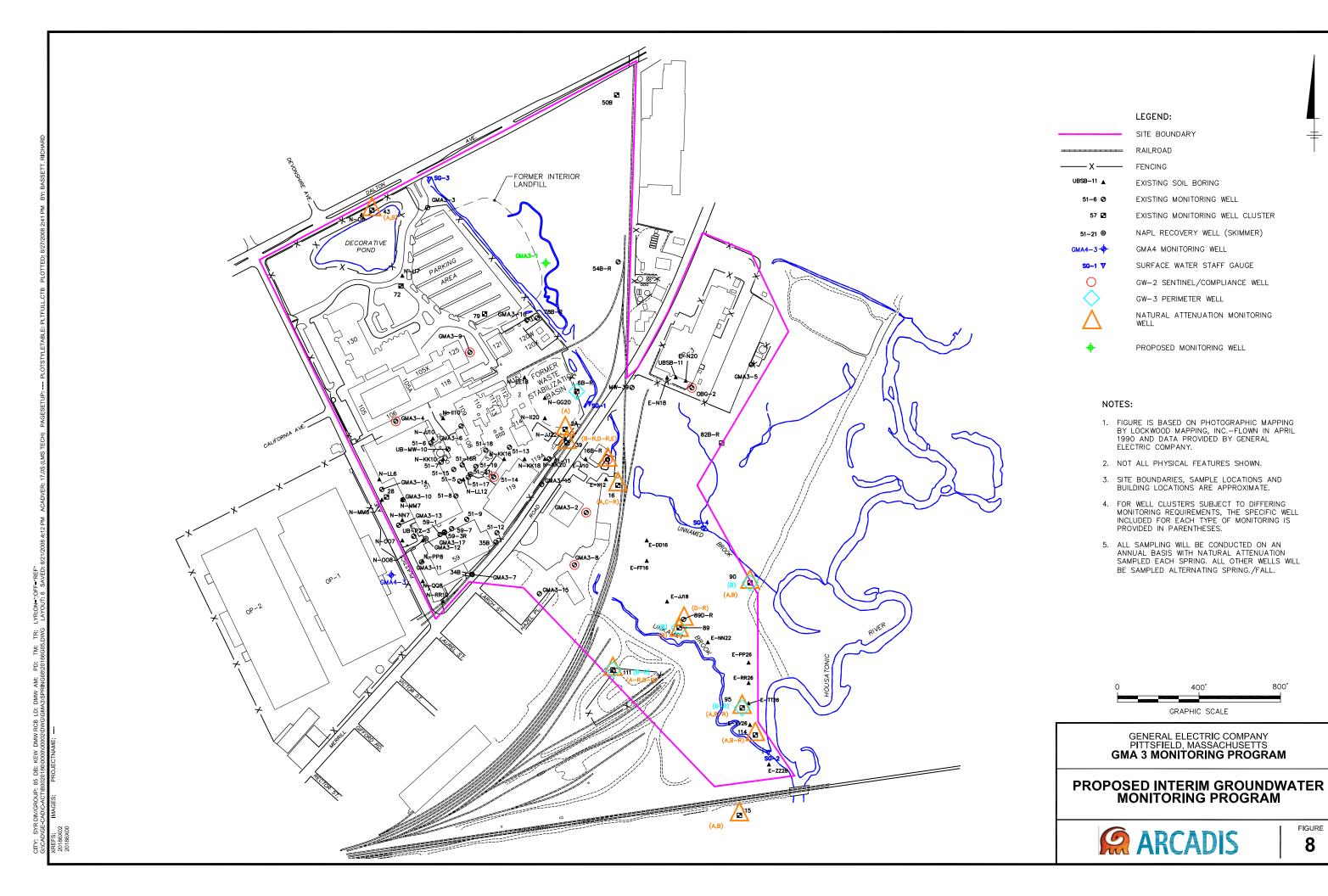












# **ARCADIS**

**Appendices** 

## **ARCADIS**

### Appendix A

Groundwater Elevation and NAPL Monitoring/Recovery Data

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
GMA 3 Monitori	ng Wells										
002A	994.16	4/15/2008	7.23		0.00		55.10	0.00	986.93		
002A	994.16	5/1/2008	7.54		0.00		54.95	0.00	986.62		
006B-R	993.62	4/15/2008	6.56		0.00		14.81	0.00	987.06		
006B-R	993.62	5/2/2008	6.76		0.00		14.61	0.00	986.86		
016A	991.77	4/16/2008	6.20		0.00		51.07	0.00	985.57		
016A	991.77	5/1/2008	6.48		0.00		50.90	0.00	985.29		
016B-R	994.87	4/16/2008	8.81		0.00		16.45	0.00	986.06		
016B-R	994.87	5/1/2008	8.98		0.00		16.56	0.00	985.89		
016C-R	993.23	4/16/2008	7.08		0.00		102.90	0.00	986.15		
016C-R	993.23	5/1/2008	7.30		0.00		102.10	0.00	985.93		
039B-R	991.97	4/15/2008	5.47		0.00		13.89	0.00	986.50		
039B-R	991.97	4/28/2008	5.65		0.00		13.70	0.00	986.32		
039B-R	991.97	4/30/2008	5.65		0.00		13.70	0.00	986.32		
039D-R	994.73	4/15/2008	7.70		0.00		63.46	0.00	987.03		
039D-R	994.73	4/28/2008	7.99		0.00		63.29	0.00	986.74		
039D-R	994.73	4/30/2008	7.99		0.00		63.29	0.00	986.74		
039E	992.21	4/15/2008	4.80		0.00		239.82	0.00	987.41		
039E	992.21	5/6/2008	4.90		0.00		239.92	0.00	987.31		
043A	993.79	4/15/2008	4.82		0.00		51.45	0.00	988.97		
043A	993.79	4/28/2008	4.93		0.00		51.20	0.00	988.86		
043A	993.79	4/30/2008	4.93		0.00		51.20	0.00	988.86		
043B	993.61	4/15/2008	5.17		0.00		16.26	0.00	988.44		
043B	993.61	4/28/2008	5.14		0.00		22.15	0.00	988.47		
043B	993.61	4/302008	5.14		0.00		22.15	0.00	988.47		
050B	991.76	4/15/2008	2.46		0.00		15.08	0.00	989.30		
51-05	996.44	1/16/2008	9.99		0.00		10.89	0.00	986.45		
51-05	996.44	2/26/2008	9.20		0.00		10.90	0.00	987.24		
51-05	996.44	3/31/2008	9.87		0.00		10.85	0.00	986.57		
51-05	996.44	4/3/2008	7.96		0.00		10.63	0.00	988.48		
51-05	996.44	4/15/2008	8.75		0.00		10.75	0.00	987.69		
51-05	996.44	5/20/2008	9.21		0.00		10.65	0.00	987.23		
51-05	996.44	6/24/2008	3.78		0.00		10.60	0.00	992.66		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
51-06	997.36	1/16/2008	10.59		0.00		14.36	0.00	986.77		
51-06	997.36	2/26/2008	9.90		0.00		14.40	0.00	987.46		
51-06	997.36	3/25/2008	9.14		0.00		14.35	0.00	988.22		
51-06	997.36	4/15/2008	9.11		0.00		14.27	0.00	988.25		
51-06	997.36	5/20/2008	10.13		0.00		14.41	0.00	987.23		
51-06	997.36	6/24/2008	10.60		0.00		14.35	0.00	986.76		
51-07	997.08	1/16/2008	10.58		0.00		11.23	0.00	986.50		
51-07	997.08	2/26/2008	9.90		0.00		11.25	0.00	987.18		
51-07	997.08	3/25/2008	9.20		0.00		11.20	0.00	987.88		
51-07	997.08	4/15/2008	9.16		0.00		11.21	0.00	987.92		
51-07	997.08	5/20/2008	10.10		0.00		11.20	0.00	986.98		
51-07	997.08	6/24/2008	10.60		0.00		11.22	0.00	986.48		
51-08	997.08	12/31/2007	12.03	10.98	1.05		14.60	0.00	986.03	0.648	
51-08	997.08	1/8/2008	12.02	10.90	1.12		14.61	0.00	986.10	0.691	
51-08	997.08	1/16/2008	11.78	10.65	1.13		14.60	0.00	986.35	0.697	
51-08	997.08	1/23/2008	10.85	10.80	0.05		14.60	0.00	986.28		
51-08	997.08	1/30/2008	11.70	10.85	0.85		14.62	0.00	986.17	0.524	
51-08	997.08	2/5/2008	11.40	10.70	0.70		14.62	0.00	986.33	0.432	
51-08	997.08	2/12/2008	11.20	10.45	0.75		14.62	0.00	986.58		
51-08	997.08	2/20/2008	10.02	9.98	0.04		14.61	0.00	987.10		
51-08	997.08	2/26/2008	10.02	10.01	0.01		14.60	0.00	987.07		
51-08	997.08	3/5/2008	10.12	10.10	0.02		14.60	0.00	986.98		
51-08	997.08	3/11/2008	9.48	9.46	0.02		14.60	0.00	987.62		
51-08	997.08	3/18/2008	9.57	9.55	0.02		14.60	0.00	987.53		
51-08	997.08	3/25/2008	9.48	9.45	0.03		14.60	0.00	987.63		
51-08	997.08	3/31/2008	9.71	9.61	0.10		14.67	0.00	987.46		
51-08	997.08	4/3/2008	9.46	9.42	0.04		14.58	0.00	987.66	0.025	
51-08	997.08	4/9/2008	9.30	9.25	0.05		14.62	0.00	987.83		
51-08	997.08	4/15/2008	9.39	9.37	0.02		14.58	0.00	987.71		
51-08	997.08	4/22/2008	9.72	9.71	0.01		14.60	0.00	987.37		
51-08	997.08	4/29/2008	9.81	9.80	0.01		14.60	0.00	987.28		
51-08	997.08	5/6/2008	10.00	9.98	0.02		14.60	0.00	987.10		
51-08	997.08	5/14/2008	10.30	10.25	0.05		14.60	0.00	986.83		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
51-08	997.08	5/20/2008	10.35	10.33	0.02		14.60	0.00	986.75		
51-08	997.08	5/27/2008	10.54	10.50	0.04		14.60	0.00	986.58		
51-08	997.08	6/2/2008	10.75	10.72	0.03		14.61	0.00	986.36		
51-08	997.08	6/10/2008	10.67	10.65	0.02		14.60	0.00	986.43		
51-08	997.08	6/18/2008	10.80	10.70	0.10		14.60	0.00	986.37		
51-08	997.08	6/24/2008	10.90	10.73	0.17		14.60	0.00	986.34		
51-09	997.70	1/16/2008	10.36		0.00		11.59	0.00	987.34		
51-09	997.70	2/26/2008	9.45		0.00		11.60	0.00	988.25		
51-09	997.70	3/25/2008	9.14		0.00		11.60	0.00	988.56		
51-09	997.70	4/15/2008	9.09		0.00		11.58	0.00	988.61		
51-09	997.70	5/20/2008	9.90		0.00		11.58	0.00	987.80		
51-09	997.70	6/24/2008	10.40		0.00		11.60	0.00	987.30		
51-11	994.37	1/16/2008	7.48		0.00		13.45	0.00	986.89		
51-11	994.37	2/26/2008	7.30		0.00		13.48	0.00	987.07		
51-11	994.37	3/25/2008	6.60		0.00		13.54	0.00	987.77		
51-11	994.37	4/15/2008	6.79		0.00		13.52	0.00	987.58		
51-11	994.37	5/20/2008	7.90		0.00		13.52	0.00	986.47		
51-11	994.37	6/24/2008	8.10		0.00		13.50	0.00	986.27		
51-12	996.55	1/16/2008	7.32		0.00		13.33	0.00	989.23		
51-12	996.55	2/26/2008	6.98		0.00		13.32	0.00	989.57		
51-12	996.55	3/25/2008	6.85		0.00		13.34	0.00	989.70		
51-12	996.55	4/15/2008	7.05		0.00		13.34	0.00	989.50		
51-12	996.55	5/20/2008	7.35		0.00		13.35	0.00	989.20		
51-12	996.55	6/24/2008	7.75		0.00		13.34	0.00	988.80		
51-13	997.42	1/16/2008	Dry at 9.83 (fee	t BMP)			9.83	0.00	NA		
51-13	997.42	2/26/2008	Dry at 9.83 (fee	t BMP)			9.83	0.00	NA		
51-13	997.42	3/25/2008	Dry at 9.83 (fee	t BMP)			9.83	0.00	NA		
51-13	997.42	4/15/2008	Dry at 9.82 (fee	t BMP)			9.82	0.00	NA		
51-13	997.42	5/20/2008	Dry at 9.82 (fee	t BMP)			9.82	0.00	NA		
51-13	997.42	6/24/2008	Dry at 9.83 (fee	t BMP)			9.83	0.00	NA		
51-14	996.77	11/2/2007	11.48		0.00		14.64	0.00	985.29		
51-14	996.77	1/16/2008	10.49		0.00		14.68	0.00	986.28		
51-14	996.77	2/26/2008	9.85		0.00		14.66	0.00	986.92		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
51-14	996.77	3/25/2008	9.30		0.00		14.66	0.00	987.47		
51-14	996.77	4/15/2008	9.41		0.00		14.70	0.00	987.36		
51-14	996.77	5/2/2008	9.87		0.00		14.46	0.00	986.90		
51-14	996.77	5/20/2008	10.25		0.00		14.60	0.00	986.52		
51-14	996.77	6/24/2008	10.60		0.00		14.62	0.00	986.17		
51-15	996.43	1/16/2008	10.06	9.97	0.09		14.38	0.00	986.45		
51-15	996.43	2/26/2008	9.31	9.26	0.05		14.40	0.00	987.17		
51-15	996.43	3/31/2008	9.00	8.87	0.13		14.48	0.00	987.55		
51-15	996.43	4/3/2008	8.80	8.69	0.11		14.40	0.00	987.73	0.068	
51-15	996.43	4/15/2008	8.69	8.68	0.01		14.38	0.00	987.75		
51-15	996.43	5/20/2008	9.64	9.60	0.04		14.38	0.00	986.83		
51-15	996.43	6/24/2008	10.11	10.10	0.01		14.40	0.00	986.33		
51-16R	996.39	1/16/2008	9.98	9.96	0.02		14.55	0.00	986.43		
51-16R	996.39	2/26/2008	9.22		0.00		14.55	0.00	987.17		
51-16R	996.39	3/31/2008	8.94		0.00		14.57	0.00	987.45		
51-16R	996.39	4/3/2008	9.72		0.00		14.56	0.00	986.67		
51-16R	996.39	4/15/2008	8.73	8.72	0.01		14.52	0.00	987.67		
51-16R	996.39	5/20/2008	9.65	9.60	0.05		14.52	0.00	986.79		
51-16R	996.39	6/24/2008	10.04	10.02	0.02		14.52	0.00	986.37		
51-17	996.43	1/16/2008	10.99	9.76	1.23		14.49	0.00	986.58	0.760	
51-17	996.43	2/26/2008	9.32	9.14	0.18		14.50	0.00	987.28		
51-17	996.43	3/31/2008	9.26	8.81	0.45		14.59	0.00	987.59		
51-17	996.43	4/3/2008	8.99	8.58	0.41		14.55	0.00	987.82	0.253	
51-17	996.43	4/15/2008	8.65	8.63	0.02		14.47	0.00	987.80		
51-17	996.43	5/20/2008	9.68	9.65	0.03		14.48	0.00	986.78		
51-17	996.43	6/24/2008	10.04	9.95	0.09		14.50	0.00	986.47		
51-18	997.12	1/16/2008	10.63		0.00		12.61	0.00	986.49		
51-18	997.12	2/26/2008	10.00		0.00		12.60	0.00	987.12		
51-18	997.12	3/25/2008	9.60		0.00		12.60	0.00	987.52		
51-18	997.12	4/15/2008	9.56		0.00		12.57	0.00	987.56		
51-18	997.12	5/20/2008	10.44		0.00		12.60	0.00	986.68		
51-18	997.12	6/24/2008	10.70		0.00		12.60	0.00	986.42		
51-19	996.43	1/16/2008	10.74	10.15	0.59		14.09	0.00	986.24	0.364	

Table A-1 **Groundwater Elevation And Monitoring/Recovery Data** January 2008 - June 2008 **Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008** 

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
51-19	996.43	2/26/2008	9.54	9.50	0.04		14.09	0.00	986.93		
51-19	996.43	3/31/2008	9.27	9.21	0.06		14.15	0.00	987.22		
51-19	996.43	4/3/2008	9.02	8.98	0.04		14.07	0.00	987.45	0.025	
51-19	996.43	4/15/2008	9.04	9.03	0.01		14.07	0.00	987.40		
51-19	996.43	5/20/2008	9.97	9.90	0.07		14.06	0.00	986.53		
51-19	996.43	6/24/2008	10.24	10.21	0.03		14.05	0.00	986.22		
51-21	1,001.49	1/2/2008	15.38	Р	< 0.01		NM	0.00	986.11	6.44	
51-21	1,001.49	1/8/2008	15.32	Р	< 0.01		NM	0.00	986.17	2.27	
51-21	1,001.49	1/15/2008	15.10	15.09	0.01		NM	0.00	986.40		
51-21	1,001.49	1/22/2008	15.20	15.19	0.01		NM	0.00	986.30	4.16	
51-21	1,001.49	1/29/2008	15.39		0.00		NM	0.00	986.10	1.14	
51-21	1,001.49	2/6/2008	15.28	Р	< 0.01		NM	0.00	986.21		
51-21	1,001.49	2/14/2008	14.70	Р	< 0.01		NM	0.00	986.79		
51-21	1,001.49	2/19/2008	14.37	14.36	0.01		NM	0.00	987.13		
51-21	1,001.49	2/27/2008	14.51	14.50	0.01		NM	0.00	986.99		
51-21	1,001.49	3/4/2008	14.70	14.69	0.01		NM	0.00	986.80		
51-21	1,001.49	3/12/2008	14.10	14.04	0.06		NM	0.00	987.45		
51-21	1,001.49	3/18/2008	14.02	13.99	0.03		NM	0.00	987.50		
51-21	1,001.49	3/25/2008	14.70	14.60	0.10		NM	0.00	986.88		
51-21	1,001.49	4/3/2008	13.80	Р	< 0.01		NM	0.00	987.69		
51-21	1,001.49	4/7/2008	13.70	Р	< 0.01		NM	0.00	987.79		
51-21	1,001.49	4/15/2008	13.88	Р	< 0.01		NM	0.00	987.61		
51-21	1,001.49	4/22/2008	14.18	Р	< 0.01		NM	0.00	987.31		
51-21	1,001.49	4/29/2008	14.75	Р	< 0.01		NM	0.00	986.74		
51-21	1,001.49	5/6/2008	14.47	Р	< 0.01		NM	NM	987.02		
51-21	1,001.49	5/13/2008	14.79	Р	< 0.01		NM	NM	986.70		
51-21	1,001.49	5/21/2008	15.69	Р	< 0.01		NM	NM	985.80		
51-21	1,001.49	5/28/2008	15.00	Р	< 0.01		NM	NM	986.49		
51-21	1,001.49	6/4/2008	15.20	Р	< 0.01		NM	0.00	986.29		
51-21	1,001.49	6/11/2008	15.02	Р	< 0.01		NM	0.00	986.47		
51-21	1,001.49	6/17/2008	15.20	Р	< 0.01		NM	0.00	986.29		
51-21	1,001.49	6/25/2008	15.11	Р	< 0.01		NM	0.00	986.38		
054B-R	991.49	4/15/2008	3.63		0.00		15.58	0.00	987.86		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

C	Broundwater Qu Broundwater Ma Beneral Electric	nagement Area	-	•	Spring 2008
	Well	Measuring Point Elev.	Date	Depth to Water	Depth to

Well	Measuring Point Elev.	Date	Depth to Water	Depth to LNAPL	LNAPL Thickness	Depth to DNAPL	Total Depth	DNAPL Thickness	Corrected Water Elev.	LNAPL Removed	DNAPL Removed
Name	(feet)	Date	(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
59-01	997.52	1/16/2008	11.04		0.00		11.43	0.00	986.48		
59-01	997.52	2/26/2008	10.30		0.00		11.38	0.00	987.22		
59-01	997.52	3/31/2008	9.90		0.00		11.49	0.00	987.62		
59-01	997.52	4/3/2008	9.41		0.00		11.47	0.00	988.11		
59-01	997.52	4/15/2008	9.42		0.00		11.43	0.00	988.10		
59-01	997.52	5/20/2008	10.35		0.00		11.40	0.00	987.17		
59-01	997.52	6/24/2008	10.90		0.00		11.40	0.00	986.62		
59-03R	997.64	1/16/2008	12.14	11.17	0.97		17.04	0.00	986.40	0.599	
59-03R	997.64	2/26/2008	11.43	10.40	1.03		17.03	0.00	987.17	0.636	
59-03R	997.64	3/31/2008	11.51	10.00	1.51		17.11	0.00	987.53		
59-03R	997.64	4/3/2008	9.76	9.75	0.01		17.05	0.00	987.89	0.006	
59-03R	997.64	4/15/2008	9.70	9.69	0.01		17.03	0.00	987.95		
59-03R	997.64	5/20/2008	12.30	10.70	1.60		17.02	0.00	986.83	0.987	
59-03R	997.64	6/24/2008	11.74	11.15	0.59		17.03	0.00	986.45	0.364	
59-07	997.96	1/16/2008	12.18	11.40	0.78		23.48	0.00	986.51	0.482	
59-07	997.96	2/26/2008	10.68	10.66	0.02		23.50	0.00	987.30		
59-07	997.96	3/31/2008	9.36	9.26	0.10		23.54	0.00	988.69		
59-07	997.96	4/3/2008	10.14	10.07	0.07		23.48	0.00	987.89	0.043	
59-07	997.96	4/15/2008	10.16	10.15	0.01		23.53	0.00	987.81		
59-07	997.96	5/20/2008	11.00	10.98	0.02		23.50	0.00	986.98		
59-07	997.96	6/24/2008	11.46	11.43	0.03		23.48	0.00	986.53		
078B-R	988.83	1/16/2008	0.36		0.00		11.68	0.00	988.47		
078B-R	988.83	2/26/2008	0.15		0.00		11.70	0.00	988.68		
078B-R	988.83	3/25/2008	Well under water	er			NA	NA	NA		
078B-R	988.83	4/15/2008	0.20		0.00		11.71	0.00	988.63		
078B-R	988.83	5/20/2008	0.60		0.00		11.73	0.00	988.23		
078B-R	988.83	6/24/2008	Well is under w	ater			11.73	0.00	NA		
082B-R	989.90	4/16/2008	3.24		0.00		11.87	0.00	986.66		
082B-R	989.90	5/2/2008	3.47		0.00		11.80	0.00	986.43		
089A	985.76	4/16/2008	2.16		0.00		47.32	0.00	983.60		
089A	985.76	5/5/2008	2.60		0.00		47.12	0.00	983.16		
089B	986.03	4/16/2008	2.48		0.00		8.95	0.00	983.55		
089B	986.03	5/5/2008	2.91		0.00		8.73	0.00	983.12		

Table A-1 **Groundwater Elevation And Monitoring/Recovery Data** January 2008 - June 2008 **Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008** 

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
089D-R	987.11	4/16/2008	3.29		0.00		80	0.00	983.82		
089D-R	987.11	5/4/2008	3.91		0.00		79.08	0.00	983.20		
090A	988.07	4/16/2008	5.38		0.00		51.65	0.00	982.69		
090A	988.07	5/14/2008	5.47		0.00		51.42	0.00	982.60		
090B	989.10	4/16/2008	5.52		0.00		12.93	0.00	983.58		
090B	989.10	5/14/2008	6.70		0.00		12.69	0.00	982.40		
095A	987.18	4/16/2008	6.06		0.00		51.02	0.00	981.12		
095A	987.18	5/14/2008	6.81		0.00		50.82	0.00	980.37		
095B-R	986.24	4/16/2008	5.24		0.00		13.63	0.00	981.00		
095B-R	986.24	5/8/2008	5.79		0.00		13.55	0.00	980.45		
111A-R	997.35	4/16/2008	12.63		0.00		52.08	0.00	984.72		
111A-R	997.35	5/6/2008	13.27		0.00		52.10	0.00	984.08		
111B-R	997.48	4/16/2008	13.47		0.00		19.77	0.00	984.01		
111B-R	997.48	5/14/2008	14.30		0.00		19.54	0.00	983.18		
114A	986.16	4/16/2008	5.17		0.00		6.42	0.00	980.99		
114A	986.16	5/13/2008	5.98		0.00		52.18	0.00	980.18		
114B-R	985.54	4/16/2008	5.17		0.00		15.26	0.00	980.37		
114B-R	985.54	5/13/2008	5.99		0.00		15.00	0.00	979.55		
115A	988.53	4/16/2008	6.51		0.00		42.76	0.00	982.02		
115A	988.53	5/15/2008	8.12		0.00		42.58	0.00	980.41		
115B	990.90	4/16/2008	9.71		0.00		15.75	0.00	981.19		
115B	990.90	5/18/2008	11.51		0.00		15.50	0.00	979.39		
GMA3-2	991.94	4/16/2008	6.16		0.00		14.98	0.00	985.78		
GMA3-3	990.45	4/15/2008	0.55		0.00		12.22	0.00	989.90		
GMA3-4	994.60	4/15/2008	5.50		0.00		13.17	0.00	989.10		
GMA3-5	993.67	4/16/2008	7.01		0.00		15.50	0.00	986.66		
GMA3-6	997.49	4/15/2008	15.20		0.00		23.55	0.00	982.29		
GMA3-7	1,000.17	1/16/2008	13.29		0.00		19.83	0.00	986.88		
GMA3-7	1,000.17	4/15/2008	11.95		0.00	-	19.86	0.00	988.22		
GMA3-8	996.24	4/16/2008	9.32		0.00		15.72	0.00	986.92		
GMA3-9	992.39	4/15/2008	3.18		0.00		12.65	0.00	989.21		
GMA3-10	997.54	12/31/2007	11.47	11.45	0.02		17.78	0.00	986.09		
GMA3-10	997.54	1/8/2008	11.47	11.30	0.17		17.78	0.00	986.23	0.105	

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
GMA3-10	997.54	1/16/2008	11.30	11.06	0.24		17.80	0.00	986.46		
GMA3-10	997.54	1/23/2008	11.40	11.00	0.40		17.78	0.00	986.51	0.247	
GMA3-10	997.54	1/30/2008	11.23	11.11	0.12		17.78	0.00	986.42		
GMA3-10	997.54	2/5/2008	11.55	11.15	0.40		17.78	0.00	986.36	0.297	
GMA3-10	997.54	2/12/2008	11.08	10.87	0.21		17.78	0.00	986.66	0.130	
GMA3-10	997.54	2/20/2008	10.56	10.38	0.18		17.70	0.00	987.15		
GMA3-10	997.54	2/26/2008	10.40	10.22	0.18		17.72	0.00	987.31		
GMA3-10	997.54	3/5/2008	10.32	10.30	0.02		17.73	0.00	987.24		
GMA3-10	997.54	3/11/2008	10.15	9.86	0.29		17.74	0.00	987.66	0.179	
GMA3-10	997.54	3/18/2008	10.14	9.75	0.39		17.73	0.00	987.76	0.241	
GMA3-10	997.54	3/25/2008	9.78	9.60	0.18		17.74	0.00	987.93		
GMA3-10	997.54	4/3/2008	9.99	9.60	0.39		17.74	0.00	987.91	0.241	
GMA3-10	997.54	4/9/2008	9.72	9.40	0.32		17.74	0.00	988.12	0.197	
GMA3-10	997.54	4/15/2008	10.26	9.45	0.81		17.71	0.00	988.03	0.500	
GMA3-10	997.54	4/22/2008	10.60	9.65	0.95		17.72	0.00	987.82	0.586	
GMA3-10	997.54	4/29/2008	10.54	9.89	0.65		17.71	0.00	987.60	0.401	
GMA3-10	997.54	5/6/2008	10.48	10.04	0.44		17.74	0.00	987.47	0.271	
GMA3-10	997.54	5/14/2008	10.80	10.30	0.50		17.71	0.00	987.21	0.308	
GMA3-10	997.54	5/20/2008	10.85	10.45	0.40		17.74	0.00	987.06	0.247	
GMA3-10	997.54	5/27/2008	10.98	10.60	0.38		17.74	0.00	986.91	0.234	
GMA3-10	997.54	6/2/2008	11.10	10.80	0.30		17.71	0.00	986.72	0.185	
GMA3-10	997.54	6/10/2008	11.04	10.87	0.17		17.76	0.00	986.66		
GMA3-10	997.54	6/18/2008	11.00	10.94	0.06		17.74	0.00	986.60		
GMA3-10	997.54	6/24/2008	11.30	10.97	0.33		17.72	0.00	986.55	0.204	
GMA3-11	997.25	12/31/2007	12.40		0.00		18.10	0.00	984.85		
GMA3-11	997.25	1/8/2008	10.60		0.00		18.07	0.00	986.65		
GMA3-11	997.25	1/16/2008	10.38		0.00		18.10	0.00	986.87		
GMA3-11	997.25	1/23/2008	10.38		0.00		18.08	0.00	986.87		
GMA3-11	997.25	1/30/2008	10.45		0.00		18.08	0.00	986.80		
GMA3-11	997.25	2/5/2008	10.50		0.00		18.05	0.00	986.75		
GMA3-11	997.25	2/12/2008	10.18		0.00		18.10	0.00	987.07		
GMA3-11	997.25	2/20/2008	9.75		0.00		18.02	0.00	987.50		
GMA3-11	997.25	2/26/2008	9.70		0.00		18.03	0.00	987.55		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
GMA3-11	997.25	3/5/2008	9.65		0.00		18.02	0.00	987.60		
GMA3-11	997.25	3/11/2008	9.40		0.00		18.02	0.00	987.85		
GMA3-11	997.25	3/18/2008	9.30		0.00		18.01	0.00	987.95		
GMA3-11	997.25	3/25/2008	9.20		0.00		18.00	0.00	988.05		
GMA3-11	997.25	4/3/2008	9.17		0.00		18.03	0.00	988.08		
GMA3-11	997.25	4/9/2008	8.98		0.00		18.00	0.00	988.27		
GMA3-11	997.25	4/15/2008	9.12		0.00		18.08	0.00	988.13		
GMA3-11	997.25	4/22/2008	9.20		0.00		17.98	0.00	988.05		
GMA3-11	997.25	4/29/2008	9.40		0.00		17.98	0.00	987.85		
GMA3-11	997.25	5/6/2008	9.58		0.00		17.98	0.00	987.67		
GMA3-11	997.25	5/14/2008	9.70		0.00		17.98	0.00	987.55		
GMA3-11	997.25	5/20/2008	9.76		0.00		17.95	0.00	987.49		
GMA3-11	997.25	5/27/2008	9.90		0.00		17.98	0.00	987.35		
GMA3-11	997.25	6/2/2008	10.10		0.00		17.95	0.00	987.15		
GMA3-11	997.25	6/24/2008	10.25		0.00		17.96	0.00	987.00		
GMA3-12	997.84	12/31/2007	11.88	11.75	0.13		21.20	0.00	986.08		
GMA3-12	997.84	1/8/2008	11.74	11.61	0.13		21.20	0.00	986.22	0.321	
GMA3-12	997.84	1/16/2008	11.50	11.38	0.12		21.22	0.00	986.45		
GMA3-12	997.84	1/23/2008	11.44	11.35	0.09		21.22	0.00	986.48		
GMA3-12	997.84	1/30/2008	11.62	11.50	0.12		21.22	0.00	986.33		
GMA3-12	997.84	2/5/2008	11.66	11.50	0.16		21.23	0.00	986.33		
GMA3-12	997.84	2/12/2008	11.36	11.18	0.18		21.20	0.00	986.65	0.111	
GMA3-12	997.84	2/20/2008	10.83	10.65	0.18		21.20	0.00	987.18		
GMA3-12	997.84	2/26/2008	10.64	10.58	0.06		21.21	0.00	987.26		
GMA3-12	997.84	3/5/2008	10.72	10.65	0.07		21.21	0.00	987.19		
GMA3-12	997.84	3/11/2008	10.19	10.14	0.05		21.20	0.00	987.70		
GMA3-12	997.84	3/18/2008	10.20	10.13	0.07		21.21	0.00	987.71		
GMA3-12	997.84	3/25/2008	10.07	9.95	0.12		21.21	0.00	987.88		
GMA3-12	997.84	3/31/2008	10.35	10.14	0.21		21.23	0.00	987.69		
GMA3-12	997.84	4/3/2008	9.98	9.92	0.06		21.22	0.00	987.92	0.148	
GMA3-12	997.84	4/9/2008	9.80	9.78	0.02		21.22	0.00	988.06		
GMA3-12	997.84	4/15/2008	10.02	9.90	0.12		21.20	0.00	987.93		
GMA3-12	997.84	4/22/2008	10.17	10.14	0.03		21.22	0.00	987.70		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well	Measuring Point Elev.	Date	Depth to Water	Depth to	LNAPL Thickness	Depth to DNAPL	Total Depth	DNAPL Thickness	Corrected Water Elev.	LNAPL Removed	DNAPL Removed
Name	(feet)	Date	(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
GMA3-12	997.84	4/29/2008	10.35	10.33	0.02		21.22	0.00	987.51		
GMA3-12	997.84	5/6/2008	10.52	10.50	0.02		21.24	0.00	987.34		
GMA3-12	997.84	5/14/2008	10.75	10.70	0.05		21.22	0.00	987.14		
GMA3-12	997.84	5/20/2008	10.94	10.87	0.07		21.25	0.00	986.97		
GMA3-12	997.84	5/27/2008	11.11	11.03	0.08		21.22	0.00	986.80		
GMA3-12	997.84	6/2/2008	11.25	11.22	0.03		21.24	0.00	986.62		
GMA3-12	997.84	6/10/2008	11.30	11.21	0.09		21.22	0.00	986.62		
GMA3-12	997.84	6/18/2008	11.38	11.30	0.08		21.24	0.00	986.53		
GMA3-12	997.84	6/24/2008	11.40	11.35	0.05		21.22	0.00	986.49		
GMA3-13	997.73	12/31/2007	11.65		0.00		17.40	0.00	986.08		
GMA3-13	997.73	1/8/2008	11.48		0.00		17.40	0.00	986.25		
GMA3-13	997.73	1/16/2008	11.30		0.00		17.40	0.00	986.43		
GMA3-13	997.73	1/23/2008	11.63	11.15	0.48		17.40	0.00	986.55	0.296	
GMA3-13	997.73	1/30/2008	11.55	11.24	0.31		17.40	0.00	986.47	0.191	
GMA3-13	997.73	2/5/2008	11.41	11.33	0.08		17.40	0.00	986.39	0.049	
GMA3-13	997.73	2/12/2008	11.18	11.03	0.15		17.40	0.00	986.69	0.093	
GMA3-13	997.73	2/20/2008	10.78	10.55	0.23		17.40	0.00	987.16	0.142	
GMA3-13	997.73	2/26/2008	10.85	10.39	0.46		17.40	0.00	987.31		
GMA3-13	997.73	3/5/2008	10.55	10.48	0.07		17.40	0.00	987.25	0.043	
GMA3-13	997.73	3/11/2008	10.25	10.01	0.24		17.38	0.00	987.70		
GMA3-13	997.73	3/18/2008	10.10	9.95	0.15		17.40	0.00	987.77	0.093	
GMA3-13	997.73	3/25/2008	9.90	9.84	0.06		17.40	0.00	987.89	0.037	
GMA3-13	997.73	4/3/2008	9.80	9.75	0.05		17.40	0.00	987.98	0.031	
GMA3-13	997.73	4/9/2008	9.59	9.56	0.03		17.40	0.00	988.17	0.019	
GMA3-13	997.73	4/15/2008	9.85	9.74	0.11		17.46	0.00	987.98	0.068	
GMA3-13	997.73	4/22/2008	9.90	9.89	0.01		17.38	0.00	987.84	0.006	
GMA3-13	997.73	4/29/2008	10.12	10.10	0.02		17.38	0.00	987.63	0.012	
GMA3-13	997.73	5/6/2008	10.25	10.21	0.04		17.38	0.00	987.52	0.025	
GMA3-13	997.73	5/14/2008	10.50		0.00		17.40	0.00	987.23		
GMA3-13	997.73	5/20/2008	10.64	10.63	0.01		17.38	0.00	987.10		
GMA3-13	997.73	5/27/2008	10.87	10.82	0.05		17.38	0.00	986.91	0.031	
GMA3-13	997.73	6/2/2008	11.03	10.96	0.07		17.40	0.00	986.77	0.043	
GMA3-13	997.73	6/10/2008	11.17	11.03	0.14		17.40	0.00	986.69		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
GMA3-13	997.73	6/18/2008	11.20	11.19	0.01		17.40	0.00	986.54	0.006	
GMA3-13	997.73	6/24/2008	11.35	11.15	0.20		17.38	0.00	986.57	0.123	
GMA3-14	997.42	1/16/2008	10.47		0.00		16.55	0.00	986.95		
GMA3-14	997.42	2/26/2008	10.00		0.00		16.50	0.00	987.42		
GMA3-14	997.42	4/15/2008	9.32		0.00		16.51	0.00	988.10		
GMA3-14	997.42	5/20/2008	10.24		0.00		16.44	0.00	987.18		
GMA3-14	997.42	6/24/2008	10.78		0.00		16.45	0.00	986.64		
GMA3-15	996.74	1/16/2008	10.92		0.00		17.21	0.00	985.82		
GMA3-15	996.74	4/15/2008	10.10		0.00		17.28	0.00	986.64		
GMA3-16	989.26	12/31/2007	Water just abov	e riser			12.50	0.00	NA		
GMA3-16	989.26	1/8/2008	Water just abov	e riser			12.48	0.00	NA		
GMA3-16	989.26	1/16/2008	0.47		0.00		12.50	0.00	988.79		
GMA3-16	989.26	1/23/2008	0.93		0.00		12.50	0.00	988.33		
GMA3-16	989.26	1/30/2008	0.96		0.00		12.50	0.00	988.30		
GMA3-16	989.26	2/5/2008	Water just abov	e riser			12.48	0.00	NA		
GMA3-16	989.26	2/12/2008	Water just abov	e riser			12.50	0.00	NA		
GMA3-16	989.26	2/20/2008	Water just abov	e riser			12.50	0.00	NA		
GMA3-16	989.26	2/26/2008	0.40		0.00		12.42	0.00	988.86		
GMA3-16	989.26	3/5/2008	Water just abov	e riser			NM	NA	NA		
GMA3-16	989.26	3/11/2008	Water just abov	e riser			12.44	0.00	NA		
GMA3-16	989.26	3/18/2008	Water just abov	e riser			12.43	0.00	NA		
GMA3-16	989.26	3/25/2008	Water just abov	e riser			12.43	0.00	NA		
GMA3-16	989.26	4/3/2008	Water just abov	e riser			12.38	0.00	NA		
GMA3-16	989.26	4/9/2008	Water just abov	e riser			12.32	0.00	NA		
GMA3-16	989.26	4/15/2008	0.40		0.00		12.28	0.00	988.86		
GMA3-16	989.26	4/22/2008	0.79		0.00		12.35	0.00	988.47		
GMA3-16	989.26	4/29/2008	0.70		0.00		12.35	0.00	988.56		
GMA3-16	989.26	5/6/2008	0.78		0.00		12.35	0.00	988.48		
GMA3-16	989.26	5/14/2008	1.12		0.00		12.34	0.00	988.14		
GMA3-16	989.26	5/20/2008	0.68		0.00		12.35	0.00	988.58		
GMA3-16	989.26	5/27/2008	0.98		0.00		12.34	0.00	988.28		
GMA3-16	989.26	6/2/2008	0.96		0.00		12.35	0.00	988.30		
GMA3-16	989.26	6/24/2008	0.50		0.00		12.35	0.00	988.76		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
GMA3-17	1,002.00	12/31/2007	15.95	15.91	0.04		23.28	0.00	986.09	0.099	
GMA3-17	1,002.00	1/8/2008	15.97	15.82	0.15		23.28	0.00	986.17	0.371	
GMA3-17	1,002.00	1/16/2008	15.60	15.55	0.05		23.29	0.00	986.45	0.124	
GMA3-17	1,002.00	1/23/2008	15.75	15.58	0.17		23.29	0.00	986.41	0.420	
GMA3-17	1,002.00	1/30/2008	15.77	15.71	0.06		23.29	0.00	986.29	0.037	
GMA3-17	1,002.00	2/5/2008	15.79	15.70	0.09		23.27	0.00	986.29	0.056	
GMA3-17	1,002.00	2/12/2008	Skimmer Install	ed			NA	NA	NA		
GMA3-17	1,002.00	2/14/2008	16.45	Р	< 0.01		NM	0.00	985.55		
GMA3-17	1,002.00	4/22/2008	16.70	Р	< 0.01		NM	0.00	985.30		
GMA3-17	1,002.00	2/19/2008	16.18	16.16	0.02		NM	0.00	985.84		
GMA3-17	1,002.00	2/27/2008	16.02	16.00	0.02		NM	0.00	986.00		
GMA3-17	1,002.00	5/14/2008	16.70	Р	< 0.01		NM	0.00	985.30		
GMA3-17	1,002.00	3/4/2008	16.30	16.29	0.01		NM	0.00	985.71		
GMA3-17	1,002.00	3/12/2008	16.59	16.16	0.43		NM	0.00	985.81		
GMA3-17	1,002.00	3/18/2008	15.61	15.60	0.01		NM	0.00	986.40		
GMA3-17	1,002.00	3/25/2008	15.31	15.30	0.01		NM	0.00	986.70		
GMA3-17	1,002.00	4/3/2008	15.30	Р	< 0.01		NM	NM	986.70		
GMA3-17	1,002.00	4/7/2008	15.18	Р	< 0.01			NM	986.82		
GMA3-17	1,002.00	4/15/2008	15.30	Р	< 0.01		NM	NM	986.70		
GMA3-17	1,002.00	4/22/2008	15.55	15.54	0.01		NM	NM	986.46		
GMA3-17	1,002.00	4/29/2008	15.75	Р	< 0.01		NM	0.00	986.25		
GMA3-17	1,002.00	5/6/2008	15.90	Р	< 0.01		NM	NM	986.10		
GMA3-17	1,002.00	5/13/2008	16.17	Р	< 0.01		NM	NM	985.83		
GMA3-17	1,002.00	5/21/2008	16.63		0.00		NM	NM	985.37		
GMA3-17	1,002.00	5/28/2008	16.51	Р	< 0.01		NM	NM	985.49		
GMA3-17	1,002.00	6/17/2008	16.80	Р	< 0.01		NM	NM	985.20		
GMA3-17	1,002.00	6/25/2008	16.78	Р	< 0.01		NM	NM	985.22		
OBG-2	992.20	4/16/2008	4.21		0.00		14.88	0.00	987.99		
UB-MW-10	995.99	1/16/2008	9.43		0.00		14.46	0.00	986.56		
UB-MW-10	995.99	2/26/2008	8.70		0.00		14.45	0.00	987.29		
UB-MW-10	995.99	3/25/2008	8.20		0.00		14.30	0.00	987.79		
UB-MW-10	995.99	4/15/2008	8.16		0.00		14.45	0.00	987.83		
UB-MW-10	995.99	5/20/2008	9.10		0.00		14.30	0.00	986.89		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NARL Monitoring Interim Report for Spring

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3

**General Electric Company - Pittsfield, Massachusetts** 

Well	Measuring Point Elev.	Date	Depth to Water	Depth to LNAPL	LNAPL Thickness	Depth to DNAPL	Total Depth	DNAPL Thickness	Corrected Water Elev.	LNAPL Removed	DNAPL Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
UB-MW-10	995.99	6/24/2008	9.50		0.00		14.35	0.00	986.49		
UB-PZ-3	998.15	1/16/2008	12.03	11.87	0.16		13.41	0.00	986.27		
UB-PZ-3	998.15	2/26/2008	11.41	11.04	0.37		13.42	0.00	987.08	0.057	
UB-PZ-3	998.15	3/31/2008	11.12	10.48	0.64		13.41	0.00	987.63		
UB-PZ-3	998.15	4/3/2008	10.93	10.36	0.57		13.41	0.00	987.75	0.138	
UB-PZ-3	998.15	4/15/2008	10.85	10.28	0.57		13.40	0.00	987.83		
UB-PZ-3	998.15	5/20/2008	11.48	11.30	0.18		13.42	0.00	986.84	0.063	
UB-PZ-3	998.15	6/24/2008	11.95	11.84	0.11		13.40	0.00	986.30	0.038	
Unkamet Brook	Staff Gauges										
GMA3-SG-1	988.90	4/15/2008	4.33	Chiseled squ	uare in concre	te headwall	at Outfall 00	9C	993.23		
GMA3-SG-2	981.61	4/16/2008	2.55	See note 6 r	egarding dep	th to water			984.16		
GMA3-SG-3	989.42	4/15/2008	4.99		egarding dep				994.41		
GMA3-SG-4	989.71	4/16/2008	0.50	See note 6 r	egarding dep	th to water			989.42		
<b>GMA 4 Monitorin</b>	ng Wells (Adjac	ent to GMA3)									
060B-R	1,002.79	4/17/2008	13.10		0.00		20.78	0.00	989.69		
GMA4-3	1,003.95	1/15/2008	17.52		0.00		26.25	0.00	986.43		
GMA4-3	1,003.95	2/26/2008	18.70		0.00		26.24	0.00	985.25		
GMA4-3	1,003.95	3/26/2008	16.00		0.00		26.24	0.00	987.95		
GMA4-3	1,003.95	4/17/2008	15.91		0.00		26.23	0.00	988.04		
GMA4-3	1,003.95	5/20/2008	16.80		0.00		26.24	0.00	987.15		
GMA4-3	1,003.95	6/24/2008	17.40		0.00		26.21	0.00	986.55		
RF-14	1,001.59	4/17/2008	6.74		0.00		22.60	0.00	994.85		

#### Notes:

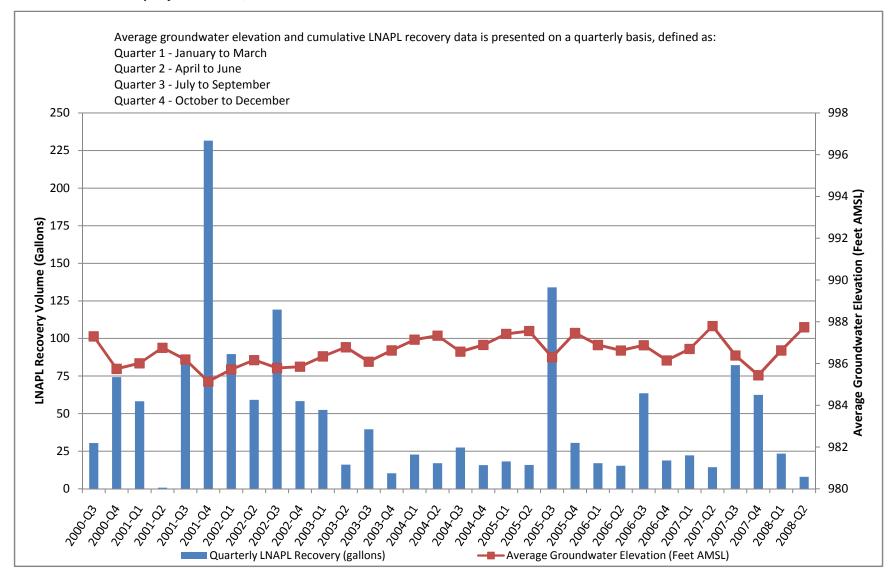
- 1. ft BMP feet Below Measuring Point.
- 2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
- 3. NA indicates information not available.
- 4. NM indicates information not measured.
- 5. P indicates that LNAPL is present at a thickness that is < 0.01 feet, the corresponding thickness is recorded as such.
- 6. Survey reference points were established on the GMA 3 staff gauges. The "Depth to Water" value(s) provided in the above table refer to the vertical distance from the surveyed reference point to the water surface.

## **ARCADIS**

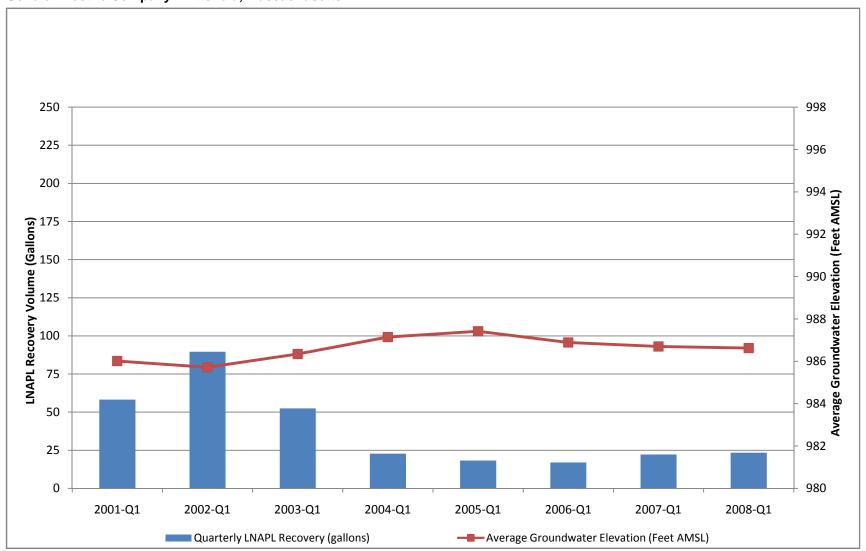
### Appendix B

Comparison of Quarterly LNAPL Recovery Volumes to Average Groundwater Elevations

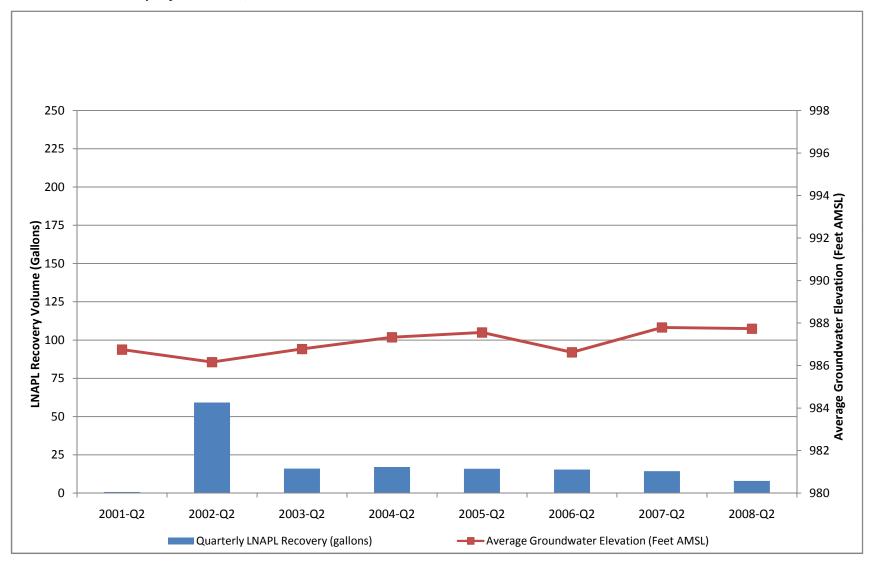
Appendix B
Comparison of Quarterly LNAPL Recovery to Groundwater Elevation



Appendix B LNAPL Recovery vs. Groundwater Elevation Quarter 1 (January - March), 2001 to 2008

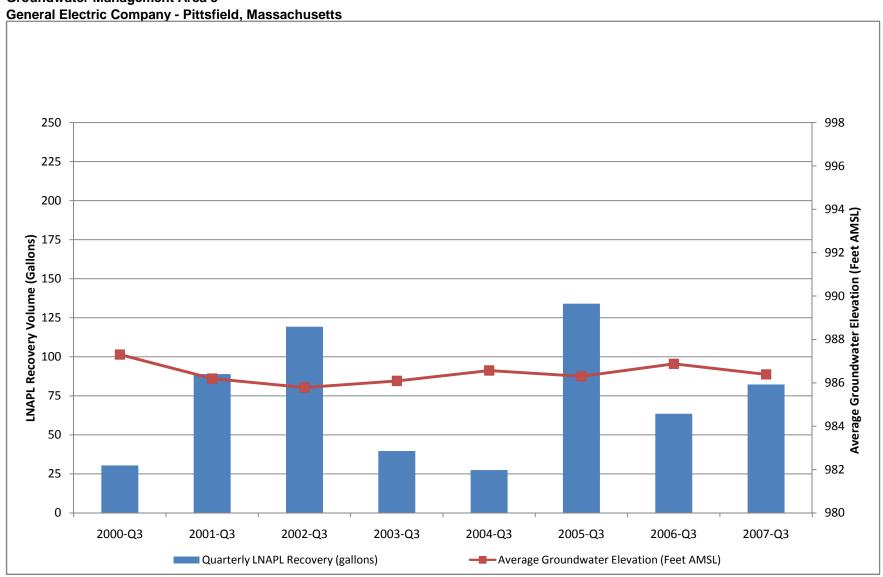


Appendix B LNAPL Recovery vs. Groundwater Elevation Quarter 2 (April - June), 2001 to 2008



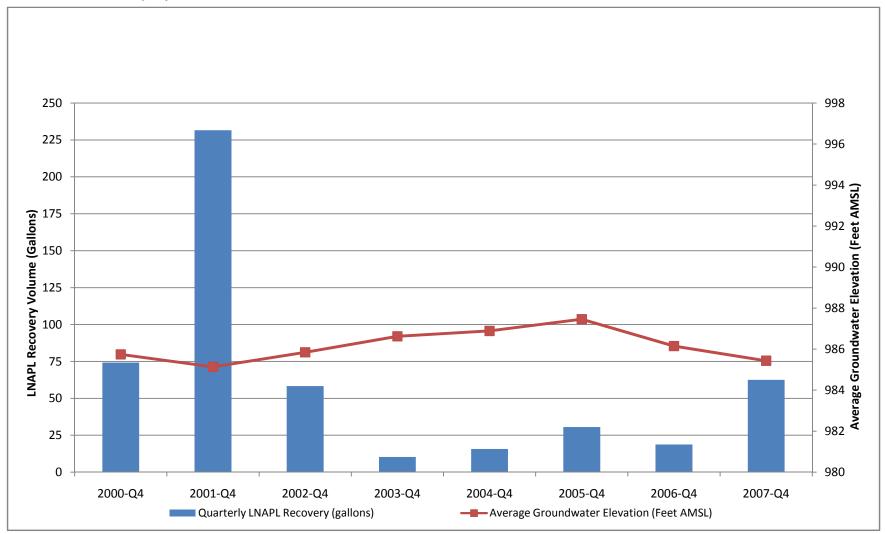
Appendix B LNAPL Recovery vs. Groundwater Elevation Quarter 3 (July - September), 2000 to 2007

**Groundwater Management Area 3** 



Appendix B LNAPL Recovery vs. Groundwater Elevation Quarter 4 (October - December), 2000 to 2007

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts



# **ARCADIS**

Appendix C

Field Sampling Data

Well Her	<del>njehace</del> (bba)	NA		•	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		50°	11-11-	
LL INFORM	ATION						Sample Time	1515 6 m 43=	2A
	Point Marked	YN		10.50	ſ		Sample ID Duplicate ID	G-MADU	
	Reference Poin		Meas. From	SKADE			MSMSD	NA	
_	Well Diameta	r	Mess. From	DAC			Spit Sample ID	NA	
	n interval Depti		Meas. From Mass. From ,	- BOD	•		·		
Wa	ter Table Depti Wei Depti		Mess. From	TIL		Required		Parameters:	Collected
l anath a	Water Column	47.41				(X)		(Std. list)	( <b>)</b>
Volume	of Water in We	<u>-1593</u>	gallons	7 -		( )		(Exp. list) /OCs	ig i
aice Depth	of Pump/Tubing	1247	Meas, From	_//	•	( x )		(Total)	$(\hat{})$
						( )	PGBs (	Dissolved)	( )
rence Poir	<u>t identification:</u> er (PVC) Casir					( )		ganica (Total)	( )
	uler (Protective					( )		nice (Dissolved)	( )
	round Surface	· -				( )		de (Dissolved) de (Dissolved)	( )
						( )		s/PCDFs	( )
evelop?	Y (N)	•				( )		w/Herbicides	( )
						(X)		Attenuation (Specify)	( <del>*</del> )
CHATION	NECRMATICE	41	A۸						
	INFORMATION		08		•				
P	ump Start Time	1405 11	.08	•	Evacuation Me	thod: Bailer (	,	ump ( )	made / )
P		15:30	•		Peristellic Pum	p (X) Su	bmersible Pump (	* *	ecify ( )
P Minu	ump Start Time ump Stop Time	15:30	•	lons	Peristellic Pum Pump Type:	p (X) Sul	bmersible Pump (	) Other/Sp	
e Minu Valume of V	ump Start Time ump Stap Time tes of Pumping	15:30 82 2460	08 - H 4.39all		Peristatic Pum Pump Type: Samples collec	p (X) Sul GLO ted by same ma	purp (	) OtherdSp	
e P Minu Valume of V	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry?	15:30 82 7 (N)	: H 4.3gall	lons YSI	Peristellic Pum Pump Type:	p (X) Sul	purp (	) Other/Sp	
P Minu Valume of V	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry?	15:30 82 2460	: H 4.3gall		Perietatic Pum Pump Type: Semples collect	p (X) Suited by same ma	britersible Pump (  pump (  phod an evacuation  63 C	) Other/Sp n? <b>③</b> N (spec 461AI	
P Minu Valume of V	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry?	15:30 82 7 (N)	: H 4.3gall	YSI.	Peristatic Pum Pump Type: Samples collec	p (X) Suited by same me  M P S	britersible Pump (  pump (  pump (  pump (  ) 3 C    Turbidity	) OtherdSp	zify)
p Minu Valume of V	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry? Water Quality Pump Rate	/ S 30 8 2 Y N Weter Type(s)/S	erial Numbers:  Water Level	YSI. Temp. (Catalus)	Peristatic Pum Pump Type: Samples collec	p (X) Suited by same ma	bmersible Pump (  Pump (  thod as evacuation  G 3 C    Turbidity  (NTU)	) Other/Sp n7	ORP (mV)
P P Minu /olume of V Di	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry?  Water Quality  Pump Rate (Limin.)	/ S 30 8 2 Y N N Neter Type(s)/S Total Gallone Removed	orial Numbers:  Water Lovel (RTIC)	YSI.	Perietatic Pum Pump Type: Semples collect	p (X) Suited by same me  M P S  Sp. Cond. (indian)	turbidity (NTU)	) Other/Sp n?  N (spec 46 A I	ORP (mV)
P P Minu /olume of V Di	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry? Water Quality Pump Rate	Meter Type(a)/S  Total Gallone Removed  Ø # 3 7	erial Numbers:  Water Level	YSI. Temp. (Colaius) [3%]*	Peristatic Pum Pump Type: Samples collect 5 5 6  pH  (0.1 units)*	p (X) Suited by same ma  M P S  Sp. Cond.  (Indian)  [3%]	britersible Purrip (  Purrip E  shod as evacuation  G 3 C 1  Turbidity  (NTU)  [10% or 1 NTUP  2 5	Other/Sp n?  N (spec 4 6   A I OC (mg/f) [10% or 0.1 mg/f]	ORP (mV)
P Minu /alume of V Di	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry?  Water Quality  Pump Rate (Limin.)	Meter Type(e)/S  Total Gallone Removed  0.63	Water Level (P. T.C)	YSI. Tomp. (Cointus) [3%]* [0.83	Peristatic Pum Pump Type: Samples collect 5 5 6  pH  [0.1 units]*	medical by same read by same read by same read of the sam	turbidity (NTU)  10% or 1 NTUP	Other/Sp n?  N (spec 4 6   A ] OO (mg/f) (10% or 0.1 mg/f) 3.8/	ORP (mV) [10 mV]*
Minute of V	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry?  Water Quality  Pump Rate (L/min.)  200	Meter Type(e)/S  Total Gallone Removed  0.63	orial Numbers:  Water Lovel (RTIC)	YSI. Temp. (Colaius) [3%]*	Peristatic Pum Pump Type: Samples collect 5 5 6  pH  j0.1 units*  9.08	M PS  Sp. Cond. (mStern) (3%)  0.336  0.357	briersible Purnp (  Purp 2  phod as evacuation  G 3 C 1  Turbidity (NTU) (10% or 1 NTUP  25  10  8	Other/Sp n?  N (spec 4 6   A] OO (mg/f) [10% or 0.1 mg/f] 3.8/	ORP (mV) [10 mV]* -34.8 -219.8
P Minu folume of V D D D D D D D D D D D D D D D D D D	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry? Water Quality Pump Rate (Limin.)	Total Gailone Removed 8,37	#39all orial Numbers:  Water Level (RTG) 7.72 7.74 7.74	YSI. Tomp. (Cointus) [3%]* [0.83	Peristatic Pum Pump Type: Samples collect 5 5 6  pH  j0.1 units*  9.08	medical by same read by same read by same read of the sam	turbidity (NTU)  10% or 1 NTUP	Other/Sp 00 N (spec 46 A T 00 (mg/l) (10% or 0.1 mg/l) 3.8/ 3.79 2.89	ORP (mV) 10 mVP  -34.8  -2/9.8  -181.4
7 P Minume of V Di Time 4 15 4 20 4 36 4 36	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry?  Water Quality  Pump Rate (L/min.)  200	Total Gallone Removed 0.63	# 4.39 all erial Numbers:  Water Level (# TIC)  7.72  7.74  7.74  7.74	YSI.  Temp. (Catalus) 13%r 10.43 10.87 10.45	Peristatic Pum Pump Type: Semples collect 5 5 6  pH  io.1 unite 7.08  8.68  8.45	Sp. Cond. (mStern) (3%)*  0.336  0.357	briersible Purnp (  Purp 2  phod as evacuation  G 3 C 1  Turbidity (NTU) (10% or 1 NTUP  25  10  8	Other/Sp n?  N (spec 4 6   A] OO (mg/f) [10% or 0.1 mg/f] 3.8/	ORP (mV) [10 mVP  -34.8  -219.8  -181.6
7 P Minume of V Di Tiene 4 15 4 20 4 36 4 36	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry?  Water Quality  Pump Rate (L/min.)  200	Total   Gallons   Removed   0.63   1.03   1.23	#39all orial Numbers:  Water Level (RTG) 7.72 7.74 7.74	YSI.  Temp. (Catalus) [3%]  10.83  10.87  10.45  10.78	Peristatic Pum Pump Type: Semples collect 556  pH  io.1 units!*  9.08  8.68  8.45  8.36	M PS  Sp. Cond. (Instan) (350*  0.336  0.357  0.343	briesible Pump ( Pump 2  shod as evacuation 6 3 C 1  Turbidity (NTU) [10% or 1 NTU] 2 5  10 8 9	Other/Sp 00 N (spec 46 A T 00 (mg/l) (10% or 0.1 mg/l) 3.8/ 3.79 2.89	ORP (mV) 10 mV/P -34.8 -2/9.8 -181.6 -157.(
P Minu / Alume of V DI / Time / 15 / 4 2 0 / 4 3 5 / 4 3 5	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry? Water Quality Pump Rate (L/min.) 200 150	Total   Gallone   Removed	4.39 all  orial Numbers:  Water Level (RTIC)  7.72  7.74  7.74  7.74	YSI.  Tomp. (Calabas) (S%) (Calabas) (10.83 (0.87 (10.45) (0.78 (0.78)	Peristatic Pum Pump Type: Samples collect 556  pH  io.1 uniter  9.08  8.68  8.45  8.36  8.34	(X)   Suited by series in a case of the	briersible Pump ( Pump 2 pump	Other/Sp n?  N (spec 4 6   AI DO (mg/l) [10% or 0.1 mg/l) 3.8/ 3.79 2.89 2.63 2.63	ORP (mV) [10 mVP  -34.8  -219.8  -181.6  -157.6
Minute of V DI V 15 4 20 4 36 4 36 4 40	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry?  Water Quality  Pump Rate (L/min.)  200	Total   Gallone   Removed	# 4.39 all erial Numbers:  Water Level (# TIC)  7.72  7.74  7.74  7.74	YSI.  Temp. (Catalus) [3%]  10.83  10.87  10.45  10.78	Peristatic Pum Pump Type: Semples collect 556  pH  io.1 units* 9.08 8.68 8.45 8.36 8.34 8.34	(X)   Suited by same read by same read by same read   M f S     Sp. Cond. (Instan)   (3%)**   0.336     0.357     0.343     0.389     0.389	briesable Pump ( Pump 2 shod an evacuation 6 3 C 1  Turbidity (NTU) [10% or 1 NTUP 25 10 8 9 7 7 5 2	Other/Sp 17  N (spec 4 6   AI DO (mg/l) (10% or 0.1 mg/l) 3.81 3.79 2.89 2.63 2.38 2.45	-34.8 -219.8 -157.0 -155.8
7 Minute of V Di V 15 4 26 4 36 4 40 445	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry? Water Quality Pump Rate (L/rein.) 200 150.	Total   Gallone   Removed	##.39all orial Numbers:  Water Level (RTIG) 7.72 7.74 7.74 7.74 7.74	Tomp. (Colollar) (S%)  10.83  10.87  10.45  10.78  10.78  10.67	Peristatic Pum Pump Type: Semples collect 556  pH  io.1 units!*  9.08  8.68  8.45  8.36  8.34  9.34	(X) Suited by same many   M   F   Suited by same many   M   F   Suited by same many   M   F   Suited by same many   Suited by same	brierable Pump ( Pump 2 shod as evacuation 6 3 C 1  Turbidity (NTU) [10% or 1 NTUP 2.5 10 8 7 5 2	Other/Sp 17  N (spec 4	-34.8 -219.8 -157.0 -155.8
7 Minute of V Di V 15 4 26 4 36 4 40 445	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry? Water Quality Pump Rate (L/rein.) 200 150.	Total   Gallone   Removed	##.39all orial Numbers:  Water Level (RTG) 7.72 7.74 7.74 7.74 7.74	Tomp. (Catalus) [3%]  10.83  10.87  10.45  10.78  10.52  10.67	Peristatic Pum Pump Type: Semples collect 556  pH  i0.1 units* 7.08 8.69 8.45 8.36 8.36 8.34 8.30	(X)   Suite   Geo.	britersible Purrip (	Other/Sp 17  N (spect 4 6   AI DCI (mg/f) [10% or 0.1 mg/f) 3.8/ 3.79 2.89 2.83 2.93 2.95 2.93 2.93	-34.8 -219.8 -157.0 -155.8
7 Minus 7 June 14 15 14 20 14 35 14 30 14 35 14 40 14 50 14 50 16 16 16 16 16 16 16 16 16 16 16 16 16	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry? Water Quality Pump Rate (L/rein.) 200 150.	Total   Gallone   Removed   0.63   1.03   1.42   1.68   1.95   ach field parameters.	##.39all orial Numbers:  Water Level (# TIG) 7.72 7.74 7.74 7.74 7.74	Tomp. (Cadalus) [3%]*  10.83  10.87  10.45  10.78  10.52  10.67  10.56	Peristatic Pum Pump Types: Semples collect 556  pH  io.1 units; 7.08 8.68 8.45 8.36 8.36 8.30  solucted at 3-ion (140) 11	(X)   Suite   Geo.	briersible Purnp ( Purp 2 purp	Other/Sp 17  N (spect 4 6   AI DO (mg/f) [10% or 0.1 mg/f) 3.8/ 3.79 2.89 2.63 2.738 2.45 2.45 2.43 column heading.	-34.8 -219.8 -157.0 -155.8
P Minute of V DN Time	with Start Time to the or Pumping Vater Removed di Well Go Dry?  Water Quelity  Pump Rate (Limin.)  200  150  150  150  150  150	Total   Gallone   Removed   0.63   1.03   1.42   1.68   1.95   ach field parameters.	##.39all orial Numbers:  Water Level (# TIG) 7.72 7.74 7.74 7.74 7.74	Tomp. (Cadalus) [3%]*  10.83  10.87  10.45  10.78  10.52  10.67  10.56	Peristatic Pum Pump Types: Semples collect 556  pH  io.1 units; 7.08 8.68 8.45 8.36 8.36 8.30  solucted at 3-ion (140) 11	(X)   Suite   Geo.	briersible Purnp ( Purp 2 purp	Other/Sp 17  N (spect 4 6   AI DO (mg/f) [10% or 0.1 mg/f) 3.8/ 3.79 2.89 2.63 2.738 2.45 2.45 2.43 column heading.	-34.8 -219.8 -157.0 -155.8
P Minute of V DN Time	ump Start Time ump Stop Time tee of Pumping Vater Removed d Well Go Dry? Water Quality Pump Rate (L/rein.) 200 150.	Total   Gallone   Removed   0.63   1.03   1.42   1.68   1.95   ach field parameters.	##.39all orial Numbers:  Water Level (# TIG) 7.72 7.74 7.74 7.74 7.74	Tomp. (Cadalus) [3%]*  10.83  10.87  10.45  10.78  10.52  10.67  10.56	Peristatic Pum Pump Types: Semples collect 556  pH  io.1 units; 7.08 8.68 8.45 8.36 8.36 8.30  solucted at 3-ion (140) 11	(X)   Suite   Geo.	britersible Purrip (	Other/Sp 17  N (spect 4 6   AI DO (mg/f) [10% or 0.1 mg/f) 3.8/ 3.79 2.89 2.63 2.738 2.45 2.45 2.43 column heading.	-34.8 -219.8 -157.0 -155.8
P Minute of V DN Time	with Start Time to the or Pumping Vater Removed di Well Go Dry?  Water Quelity  Pump Rate (Limin.)  200  150  150  150  150  150	Total   Gallone   Removed   0.63   1.03   1.42   1.68   1.95   ach field parameters.	##.39all orial Numbers:  Water Level (# TIG) 7.72 7.74 7.74 7.74 7.74	Tomp. (Cadalus) [3%]*  10.83  10.87  10.45  10.78  10.52  10.67  10.56	Peristatic Pum Pump Types: Semples collect 556  pH  io.1 units; 7.08 8.68 8.45 8.36 8.36 8.30  solucted at 3-ion (140) 11	(X)   Suite   Geo.	briersible Purnp ( Purp 2 purp	Other/Sp 17  N (spect 4 6   AI DO (mg/f) [10% or 0.1 mg/f) 3.8/ 3.79 2.89 2.63 2.738 2.45 2.45 2.43 column heading.	-34.8 -219.8 -157.0 -155.8
P P Minu Volume of V DN Time 1415 420 425 440 445 M50 me stabilization servation	with Start Time to the or Pumping Vater Removed di Well Go Dry?  Water Quelity  Pump Rate (Limin.)  200  150  150  150  150  150	Total   Gallone   Removed   0.63   1.03   1.42   1.68   1.95   ach field parameters.	##.39all orial Numbers:  Water Level (# TIG) 7.72 7.74 7.74 7.74 7.74	Tomp. (Cadalus) [3%]*  10.83  10.87  10.45  10.78  10.52  10.67  10.56	Peristatic Pum Pump Types: Semples collect 556  pH  io.1 units; 7.08 8.68 8.45 8.36 8.36 8.30  solucted at 3-ion (140) 11	(X)   Suite   Geo.	briersible Purnp ( Purp 2 purp	Other/Sp 17  N (spect 4 6   AI DO (mg/f) [10% or 0.1 mg/f) 3.8/ 3.79 2.89 2.63 2.738 2.45 2.45 2.43 column heading.	ORP (mV) [10 mVP  -34.8  -219.8  -181.5  -157.0

COMPANIES CONTRACTOR AT STATE OF THE OTHER OF THE CONTRACTOR AT STATE OF THE CONTRACTOR AT STATE OF TH

			!	GROUNDWA	TER SAMPLI	NG LOG	•					
	2A				te/GMA 'Name ling Personnel Date Weather	(-MH) KR/1 5/1108	C-MH3-ZH KR/DZ 5/1108 (142,600					
WELL INFORM	AATION - See		<del></del>					<b>.</b>				
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 NTUI*	DO (mg/i) [10% or 0.1 mg/i]*	ORP (mV) [10 mV]*			
1455	200	2.21	7.74	10,45	8,27	0.390	Z	2.21				
1455		2.48		10.68		<del></del>	2	2.10	-850			
1505		2-74	7.71	10.64	425	0.393	2	1.98	-49.			
1508		2.90	7.71	10.73	8.25	0.393	ì	1.94	-814			
1511	1	3-06	7.71	10.73	8.24	0.394	1	1.90	-40.2			
agented to 10 cm.					<u> </u>	7: 1						
	<del></del>						makan makan da salah	The state of the s				
					and the second s	and the same of th						
				Symple	olla 1	515			V-1			
				GMA	D.07			·				
				07.77	Vyr C							
									+			
									<del></del>			
									***			
									····			
									<u>.</u>			
							.					
he stabilization	criteria for each	ch field paramete	r (three consecutions	utive readings co	plected at 3- to 1	5-minute interval Due	is) is listed in each	column heading.				

	10			26	MGMA Nume	GMI			
Well No.	6B	-1(		المسعة	ng Personnei	D.Zul	1Kary		
Key No.		NA			Date	5/2/09	1		
	ground (ppm)	1/1		•	Weather	Overasi	L 480		
VT-00 17000	iepace (ppm)			•				1330	
l inform	ATION						Semple Time	20.20	
	Point Mericed?	• <b>②</b> n			Ť		Sample ID . Oupšcate ID .		
	elerence Point	)	Meas. From				MSMSD		
_	<b>Well Diameter</b>	2"	Mess. From	RLS			Spit Sample ID		
	Interval Depth		Meas. From Meas. From	T75/			-,		
Wat	er Table Depth		Mass. From	Tic	•	Required		Parameters:	Collected
6	Wei Depth Water Column		)			$(\varphi)$		(Std. list)	(1)
	(Water in Well		<i>.</i>	Wit-		( )		(Exp. list) OCs	( )
	Pump/Tubing		Meas. From	TOTIC		( )		(Total)	( )
						( )		lissolved)	( )
	identification:					( )		ganics (Total)	( )
	w (PVC) Casin					( )		rice (Dissolved)	( )
	Her (Protective	) Carenty				( )		le (Dissolved)	( )
ereces: Git	ound Surface	•				( )		le (Dissolved) v/PCDFs	( )
rvelop?	Y (N)					( )		M-curs Merbicides	( )
						( )		Attenuation	( )
						( )		(Specify)	( )
Pu Minuti folume of Wi Did	NIFORMATION IMP Start Time IMP Stop Time IMP	Y	5.87mi. 3.09 mil	lyw r		Substant Sub	omersible Pump (	Other/Spe	<b>(Y)</b>
Pu Minuti Solume of Wi Did	mp Start Time imp Stop Time se of Pumping ster Removed I Well Go Dry? * : Water Quality N	1345 246 246 245	.3.09 nl	lyw r	Perietettic Pum Pump Type: Samples collec	Substitution of the substi	omersible Pump (  Pump Z  thod as evacuation  Hack  Turbidity	) Other/Spa 17 (Y) N (speci 2/0/) P 7	ORP
Pus Minute of Win Did	mp Start Time mp Stop Time se of Pumping ster Removed Well Go Dry? Nater Quality I Pump Rute	13.45 Along V (1) Actor Type(a)/S	orial Numbers:  Water Level	Tomp.	Perietatic Pum Pump Type: Samples collect  ys/- 5 pH	Substitution of the substi	mersible Pump (  Pum jo Z  mod se evacuator  Hack  Turbidity  (NTU)	) Other/Spa 17 (Y) N (speci 2/0/) P 7 DO (mg/f)	mubiolin
Pus Minute of Win Did	mp Start Time mp Stop Time se of Pumping ster Removed Well Go Dry? Nater Quality I	13.45 Actor Type(a)/S	orial Numbers:  Water Level (RTIC)	#3-	Perieteitic Pum Pump Type: Samples collect	Substitution of the substi	mersible Pump (  Pum jo Z  thod as evacuation  Hack  Turbidity  (NTU)  [10% or 1 NTU]	) Other/Spa 17 (Y) N (speci 2/0/) P 7 DO (mg/f)	ORP (mV)
Pus Minute Sturne of Wi Did V	mp Start Time mp Stop Time se of Pumping ster Removed Well Go Dry? Nater Quality I Pump Rute	13.45  Actor Type(a)/S  Total Gallone	Water Level (RETIG)	Tomp. (Caiatus) (S%)	Peristatic Pum Pump Type: Samples collect  Y5/- 5.  pH  [0.1 unite]*	Substitution of the substi	omersible Pump ( Pump Z  shod as evacuation  Hack  Turbidity  (NTU)  [10% or 1 NTU]*	) Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f*	ORP (mV) [10 mV)
Pus Minute of Winds Did	mp Start Time mp Stop Time se of Pumping ster Removed Well Go Dry?  Nater Quality It  Pump Rute Will Train.)	Total Galfons Removed	orial Numbers:  Water Level (RTIC)	Tomp.	Perietatic Pum Pump Type: Samples collect  ys/- 5 pH	Substitution of the substi	mersible Pump ( Pump Z  thod as evacuation  Hack  Turbidity  (NTU)  [10% or 1 NTU]*	Other/Spa 17 (Y) N (special 2/0/2.P 7 DO (mg/f) [10% or 0.1 mg/f*]	ORP (mV) [10 mV]P
Pus Minute of Winds o	mp Start Time mp Stop Time se of Pumping ster Removed I Well Go Dny?  Nater Quality I  Pump Rate  Will min.)	Total Gallons Removed  0.26	Water Level (NTIC) 6.87 7.48	#3- Temp. (Cadatus) [3%]*	Peristatic Pum Pump Type: Samples collect  YS1-5.  pH  (0.1 unite)*	Subsequence of the second of t	omersible Pump ( Pump Z  shod as evacuation  Hack  Turbidity  (NTU)  [10% or 1 NTU]*	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60	ORP (mV) [10 mVP
Pus Minute of Winds o	mp Start Time mp Stop Time ee of Pumping ster Removed Well Go Dry?  Nater Quality It  Pump Rate Willmin.)	Total Galfons Removed  0.26  0.46	oriel Numbers:  Water Level (N TIC) 6.47 7.48	#3- Tomp. (Cadatus) (S%P 8.01	Perietatic Pum Pump Type: Samples collect YSI - 5. pH (0.1 unite)*	Substitution of the second of	omersible Pump ( Pump Z thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  Z	Other/Spa 17 (Y) N (special 2/0/2.P 7 DO (mg/f) [10% or 0.1 mg/f*]	ORP (mV) [10 mVP
Pus Minute of Winds o	mp Start Time mp Stop Time es of Pumping ster Removed I Well Go Dry?  Nater Quality It  Pump Rate  200 150 150	Total Gallone Removed  0.46  0.46  0.66	Water Level (NTIC) 6.87 7.48	#3- Temp. (Calatus) [3%] #.01 8.01 7,86	Perietatic Pum Pump Type: Semples collect  YS1-5.  pH  (0.1 unite)*  6.40  6.78  6,40	Subsection of the second of th	omersible Pump ( Pump Z thod as evacuation  Hack  Turbidity (NTU)  [10% or 1 NTU]  G  Z	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 WW. 46.78	ORP (mV) [10 mVP
Pus Minute of Winds o	mp Start Time mp Stop Time ee of Pumping ster Removed Well Go Dry?  Nater Quality It  Pump Rate Willmin.)	Total Galfons Removed  0.26  0.46	orial Numbers:  Water Level (RTC) 6.47 7.48 7.71 7.53	#3- Tomp. (Cadatus) (S%P 8.01	Perietatic Pum Pump Type: Samples collect  ys/- 5.  pH  [0.1 unite]*  6.40  6.78  6.85	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359	omersible Pump ( Pump Z thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  Z	Other/Spa 37 (*) N (special 2/00 P 7 DO (mg/f) (10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13	ORP (mV) [10 mVP 80.3 30.1 1 - 35.6
Pus Minute of Winds o	mp Start Time mp Stop Time ee of Pumping ster Removed Well Go Dry?  Nater Quality It  Pump Rate Waltmin.)  200 150 150	Total Gallone Removed  0.86 0.96 0.96 0.82	oriel Numbers:  Water Level (N TIC) 6.47 7.48	#3- Temp. (Calatus) [3%] #.01 8.01 7,86	Perietatic Pum Pump Type: Samples collect  Y51-5.  pH  (0.1 unite)  6.40  6.78  6.40  6.45  6.45	Subsection of the second of th	omersible Pump ( Pump Z thod as evacuation  Hack  Turbidity (NTU)  [10% or 1 NTU]  G  Z	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11	ORP (mv) [10 mv) 30.1 -35.6 -79.6 -82.5
Pus Minute of Winds o	mp Start Time mp Stop Time es of Pumping ster Removed I Well Go Dry?  Nater Quality In  Pump Rate  200 150 150 120	13.45  2.45  Y (A)  Actor Type(a)/S  Total  Gallons  Removed  0.26  0.46  0.82  0.82	orial Numbers:  Water Level (RTC) 6.47 7.48 7.71 7.53	#3- Temp. (Calatus) [3%] #.01 8.01 7,86	Perietatic Pum Pump Type: Samples collect  Y51-5.  pH  (0.1 unite)  6.40  6.78  6.40  6.45  6.45	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359	omersible Pump ( Pump Z thod as evacuation  Hack  Turbidity (NTU)  [10% or 1 NTU]  G  Z	Other/Spa 7 N (special 2/00 P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 W/f 6.73 3.13 2.11 1.79	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2
Pus Minute of Winds o	rnp Start Time rnp Stop Time re of Pumping ster Removed Well Go Dry? Nater Quality In Pump Rate Victoria.)  200 150 150 120 120	13.45	3.09 mll  orial Numbers:  Water Level (RTC) 6.47 7.71 7.53 4.25	Tomp. (Cadatus) [3%]  8.01  7.86  7.83  7.79	Perietatic Pum Pump Type: Samples collect ys/-5. pH i0.1 unite? 6.40 6.78 6.85 6.95	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359 0.379	omersible Pump ( Pump Z thod as evacuation  Hack  Turbidity (NTU)  [10% or 1 NTU]  G  Z	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11	ORP (mv) [10 mv) 30.1 -35.6 -79.6 -82.5
Pus Minute of Winds o	mp Start Time mp Stop Time es of Pumping ster Removed (Well Go Dry?  Nater Quality It  Pump Rate  Varian.)  200  150  120  120  120	13.45  24.5  Y (A)  Actor Type(a)/S  Total  Gallons  Removed  0.26  0.46  0.82  0.95  1.14	3.09 mll  orial Numbers:  Water Level (RTIC) 6.47 7.71 7.53 4.25	Tomp. (Cadalus) [3%]  8.01  7.86  7.83  7.79  7.80	Perietatic Pum Pump Type: Samples collect ys/-5. pH jo.1 unite!* 6.40 6.78 6.40 6.85 6.92 6.92	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359 0.379 0.376	mersible Pump ( Pump 2 thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  2  2  1	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11 1.79 1.63	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2
Pus Minute of Winds o	mp Start Time mp Stop Time es of Pumping ster Removed I Well Go Dry?  Nater Quality In  Pump Rate Victoria.)  200  150  120  120  120  120  120  120	Total Gallons Removed  0.86  0.96  0.82  1.14  1.29  uch field parameter	orial Numbers:  Water Level (RTIC) 6.47 7.71 7.71 7.53 4.25	Tomp. (Cadalus) [3%]  8.01  7.86  7.83  7.79  7.80	Perietatic Pum Pump Type: Samples collect ys/-5. pH jo.1 unite!* 6.40 6.78 6.40 6.85 6.92 6.92	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359 0.379 0.376	omersible Pump ( Pump 2 thod as evacuation  Hack  Turbidity (NTU)  [10% or 1 NTU]	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11 1.79 1.63	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2
Pus Minute of Winute of Wi	mp Start Time mp Stop Time es of Pumping ster Removed ( Well Go Dry?  Nater Quality is  Pump Rate Waterin.)  200  150  120  120  120  120  120  120	Total Galfons Removed  0.86 0.96 0.96 0.82 1.19 1.29 Ich field paramet	orial Numbers:  Water Level (RTIC) 6.47 7.71 7.53 4.25 8.25	Tomp. (Cadalus) [3%]  8.01  7.86  7.83  7.79  7.80	Perietatic Pum Pump Type: Samples collect ys/-5. pH jo.1 unite!* 6.40 6.78 6.40 6.85 6.92 6.92	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359 0.379 0.376	mersible Pump ( Pump 2 thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  2  2  1	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11 1.79 1.63	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2
Pus Minute of Winds o	mp Start Time mp Stop Time es of Pumping ster Removed ( Well Go Dry?  Nater Quality is  Pump Rate Waterin.)  200  150  120  120  120  120  120  120	Total Galfons Removed  0.86 0.96 0.96 0.82 1.19 1.29 Ich field paramet	orial Numbers:  Water Level (RTIC) 6.47 7.71 7.53 4.25 8.25	Tomp. (Cadalus) [3%]  8.01  7.86  7.83  7.79  7.80	Perietatic Pum Pump Type: Samples collect ys/-5. pH jo.1 unite!* 6.40 6.78 6.40 6.85 6.92 6.92	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359 0.379 0.376	mersible Pump ( Pump 2 thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  2  2  1	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11 1.79 1.63	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2
Pus Minute of Winute of Wi	mp Start Time mp Stop Time es of Pumping ster Removed ( Well Go Dry?  Nater Quality is  Pump Rate Waterin.)  200  150  120  120  120  120  120  120	Total Galfons Removed  0.86 0.96 0.96 0.82 1.19 1.29 Ich field paramet	orial Numbers:  Water Level (RTIC) 6.47 7.71 7.53 4.25 8.25	Tomp. (Cadalus) [3%]  8.01  7.86  7.83  7.79  7.80	Perietatic Pum Pump Type: Samples collect ys/-5. pH jo.1 unite!* 6.40 6.78 6.40 6.85 6.92 6.92	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359 0.379 0.376	mersible Pump ( Pump 2 thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  2  2  1	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11 1.79 1.63	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2
Pus Minute of Winute of Wi	mp Start Time mp Stop Time es of Pumping ster Removed ( Well Go Dry?  Nater Quality is  Pump Rate Waterin.)  200  150  120  120  120  120  120  120	Total Galfons Removed  0.86 0.96 0.96 0.82 1.19 1.29 Ich field paramet	orial Numbers:  Water Level (RTIC) 6.47 7.71 7.53 4.25 8.25	Tomp. (Cadalus) [3%]  8.01  7.86  7.83  7.79  7.80	Perietatic Pum Pump Type: Samples collect ys/-5. pH jo.1 unite!* 6.40 6.78 6.40 6.85 6.92 6.92	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359 0.379 0.376	mersible Pump ( Pump 2 thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  2  2  1	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11 1.79 1.63	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2
Pus Minute of Winds o	rnp Start Time rnp Stop Time re of Pumping ster Removed Well Go Dry? Nater Quality In Pump Rute Victoria.)  200 150 120 120 120 120 120 120 120 120 120 12	Total Galfons Removed  0.86 0.96 0.96 0.82 1.19 1.29 Ich field paramet	orial Numbers:  Water Level (RTIC) 6.47 7.71 7.53 4.25 8.25	Tomp. (Cadalus) [3%]  8.01  7.86  7.83  7.79  7.80	Perietatic Pum Pump Type: Samples collect ys/-5. pH jo.1 unite!* 6.40 6.78 6.40 6.85 6.92 6.92	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359 0.379 0.376	mersible Pump ( Pump 2 thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  2  2  1	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11 1.79 1.63	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2
Pus Minute of Winute of Wi	mp Start Time mp Stop Time so of Pumping ster Removed Well Go Dry?  Nater Quality In Pump Rute  ZOO 150 150 120 120 120 120 120 120 120 120 120 12	Total Galfons Removed  0.86 0.96 0.96 0.82 1.19 1.29 Ich field paramet	orial Numbers:  Water Level (RTIC) 6.47 7.71 7.53 4.25 8.25	Tomp. (Cadalus) [3%]  8.01  7.86  7.83  7.79  7.80	Perietatic Pum Pump Type: Samples collect ys/-5. pH jo.1 unite!* 6.40 6.78 6.40 6.85 6.92 6.92	Sp. Cond. (m8/cm) (3%) 0.323 0.329 0.359 0.379 0.376	mersible Pump ( Pump 2 thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  2  2  1	Other/Spa 7 N (special 2/0/2/P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 bits 46.78 3.13 2.11 1.79 1.63	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2
Pus Minute of Winds o	mp Start Time mp Stop Time so of Pumping ster Removed Well Go Dry?  Nater Quality In Pump Rute  ZOO 150 150 120 120 120 120 120 120 120 120 120 12	Total Gailcone Removed  0.26 0.46 0.66 0.82 1.14 1.29 sch field paramet	orial Numbers:  Water Level (RTIC) 6.47 7.71 7.53 4.25 8.25	#3- Tomp. (Calatus) [3%]*  8.01  7.86  7.89  7.79  7.80  cultive readings of	Perietatic Pum Pump Type: Samples collect ys/-5. pH jo.1 unite!* 6.40 6.78 6.40 6.85 6.92 6.92	Subsection of the sum	mersible Pump ( Pump 2 thod se evacuation  Hack  Turbidity (NTU) [10% or 1 NTUP  G  2  2  1	Other/Spa 7 N (special 2/00 P 7 DO (mg/f) [10% or 0.1 mg/f) 20.60 12.78 W/ 6.73 3.13 2.11 1.79 1.63 column heading.	ORP (mV) [10 mVP  80.3  30.1  -35.6  -79.6  -82.5  -87.2

C:MCMCMMinumentersifi4199/Madagard

Well No. 6B-R	Site/GMA Name	
	Sampling Personnel MA > KLC	
	Date 5/2/0%	
	Weather Overage 2460	

WELL INFORMATION - See Page 1

WELL INFOR			144-4	T +.	T	T	I	T	<del>                                     </del>
Time	Pump	Total	Water	Temp.	pH	Sp. Cond.	Turbidity	DO	ORP
ıme	Rate (L/min.)	Gallons Removed	Level (ft TIC)	(Celsius)	[0.1 units]*	(mS/cm)	(NTU)	(mg/l)	(mV)
1258	120	1-45	9.12	7.67	6.98	[3%]*	[10% or 1 NTU]*		
125	15:		1/12	1		0,446		1,53	-89.8
XX 1303		1.61		7.57	7.01	0.479	1	1.41	-38.3
306		\$1.71	9,42	7,31	7.05	0.611	2	1.87	-82.1
1309		1-80		7.34	7.05	0.620	3	1-47	-381
1312		1.90	9.56	7.39	7.08	0.626	6	1,29	-90.
1315	V	1-99	968	7.40	7.11	0.628	5	1.24	-94.2
1318	120	2.09		7.41	7.14	0.631	3	1.23	-958
1321	. ]	2.18	10/2	7.39	7.15	0.638	2	1.24	-98.3
1324	A	2.28	10110		7.17	0.644	3	1.20	
1327	<u> </u>	2.20		7,33	1.11	710,0		1.20	-95.9
	- <i>:</i> )								
	Saply (	(ce) 1	330 ~	The state of the s	TANDERS AND BACKET AND STREET	***************************************			
ļ	1		•						
							and the same of th		
						- American de la companya de la comp			****
					a francisco de la constante de				
				at a second	The state of the s				
				- Andrews					
	.								
						<del></del>			· · · · · · · · · · · · · · · · · · ·
		$\longrightarrow$							· · · · · · · · · · · · · · · · · · ·
						<del></del>			

The stabilization criteria for each field parameter (three consecutive readings collected at 3	i- to 5-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	
Hose come out of June Copy and stated to D	No H20

	11.11			5#					
Well No Key No.	1617			Sampli	ng Personnel	O. Ape			
	ground (ppm)	_		•	Date	<u> 4</u> 5 1 1 1	778		
	qebace (bbu)			•	Wester	-Door-	40.,		
							Semple Time	15:00	
ell inform					•		Sample ID	\6A	
	Point Mericed'i Ielerence Poin		Mees. From				Duplicate (D		
Height of N	Wed Diameter		-				MSMSD		
Screen	Interval Depti	44.50		Ground			Spiit Sample ID		
Wel	er Table Depth		Mess. From Mass. From	TIL	•	Required	Analytical	Parameters:	Collecte
	Well Depth Water Column		Long			(X)	VOCs	(Std. list)	(×)
	A Major in Maj		>` -			( )		(Exp. list)	( )
	f Pump/Tubing		Meas, From	TIL		(X)		/OCa (Total)	( )<
						( )		Dissolved)	( )
ference Point						( )		ganica (Yotal)	( )
	er (PVC) Casin ster (Protective					( )		nics (Dissolved)	( )
ade/BGS; Gr		,				( )		in (Dissolved) de (Dissolved)	( ) ( )
	$\sim$					( )	-	MPCDFs	( )
odevelop?	Y (N)					( )		·/Herbicides	()
						(X)	Natural /	Attenuation	$(\mathbf{X})$
						( )	Other	(Specify)	( )
tionism Volume of W bid	imp Start Time imp Stop Time se of Pumping later Removed I Well Go Dny?	15:50 265 5 5.	759 mll pr	t.o	Evacuation Me Peristatic Pum Pump Type: Samples collect	(X) Su	bmersible Pump (	) Other/Sp	pacify ( )  Sify)  AE
tionism Volume of W bid	imp Stop Time as of Pumping later Removed I Well Go Dry?	15:50 265	,	t.o	Peristatic Pum Pump Type:	Sur	bmersible Pump (	) Other/Sp n7 (Y) N (spec	DE =#)
tionism Valume of W	imp Stop Time as of Pumping later Removed I Well Go Dry?	7 (P)  Actor Type(e) / Sc	erial Numbers:	Y51 5	Peristatic Pum Pump Type:	Sur Cond.	brnersible Pump (	) Other/Sp n? Y N (spec	<b>≟(y</b> )
duniM W to emulay bid	imp Stop Time see of Pumping ster Removed I Wall Go Dry? Water Quality It Pump Rate	Actor Type(e) / St. Total Gallons	erial Numbers: Water	YS15 Temp. (Geleium)	Peristatic Pum Pump Type: Samples collect	Sur	bmersible Pump (	) Other/Sp n7 (Y) N (spec CO 392	ORP (mV)
Minut Volume of W Did	imp Stop Time se of Pumping ster Removed I Well Go Dry? Water Quelity it Pump Rate (L/min.)	Y (P)  Actor Type(e)/S  Total  Gallons  Removed	water Lavel (RETIG)	Y51 5	Peristalic Pum Pump Type: Samples collect pH  (0.1 units)*	Sp. Cond.	bmersible Pump (	) Other/Sp n7 (Y) N (spec 00 392 00 (mg/f)	ORP (mV)
Minut Valume of W Did	imp Stop Time se of Pumping ster Removed Well Go Dry? Water Quality It Pump Rate (Limin.)	Total Gailcone Removed  0.17	Water Level (RTIC)	YSIS Tomp. (Colorum) [3%]	Perietatic Pum Pump Type: Samples collect pH (0.1 units)	Sp. Cond. (m8/cm)	turbidity (NTU)	) Other/Sp n7 (Y) N (spec 00 392 00 (mg/f)	ORP (mV)
Minute of Winds of Wi	imp Stop Time se of Pumping ster Removed I Well Go Dry? Water Quelity it Pump Rute (L/min.)	Total Gallone Removed 0.17 0.33	Water Level (RTIC) 6.74	YSIS Tomp. (Cointum) [3%]*	Perietatic Pum Pump Type: Samples collect pH (0.1 units)*	Sp. Cond. (m8/cm)	turbidity (NTU)	) Other/Sp n7 (Y) N (spec 00 392 00 (mg/f)	ORP (mV)
Minut Valume of W Did	imp Stop Time se of Pumping ster Removed Well Go Dry? Water Quality It Pump Rate (Limin.)	Total Gailcone Removed  0.17	Water Level (RTIC)	YSIS Tomp. (Colorum) [3%]	Perietatic Pum Pump Type: Samples collec  pH  (0.1 unite)*	Su (ms/cm)	thod as evacuation  Turbidity (NTU) [10% or 1 NTUP	Other/Sp n? (Y) N (spec O 3-9 Q OO (mg/l) [10% or 0.1 mg/l]	ORP (mV)
Minute of Winds of Wi	imp Stop Time se of Pumping ster Removed I Well Go Dry? Water Quelity it Pump Rute (L/min.)	Total Gallone Removed 0.17 0.33	Water Level (RTIC) 6.74	YSIS Tomp. (Cointum) [3%]*	Perietatic Pum Pump Type: Samples collect pH (0.1 units)*	Su (ms/cm)	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP  \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Other/Spanner/	(mV)
Minut Volume of W Dis 11:30 11:35 11:38	imp Stop Time see of Pumping sater Removed I Wall Go Dry? Water Quality in Pump Rate (L/min.) \25	15:50 265 7 (B) Actor Type(e)/St Total Gallone Removed 0.17 0.33 0.43	Water Level (RTIG) 6.96 6.19	YSIS Tomp. (Cointum) [3%]*	Perietatic Pum Pump Type: Samples collec  pH  (0.1 unite)*	Su (ms/cm)	thod as evacuation  Turbidity (NTU) [10% or 1 NTUP	Other/Sp n? (Y) N (spec O 3-9 Q OO (mg/l) [10% or 0.1 mg/l]	ORP (mV)
Minute of W Did	imp Stop Time se of Pumping ster Removed Well Go Dry? Water Quality It Pump Rate (Limin.) 125 125 100	15:50 265 7 (8) Y (8) Actor Type(e)/St Total Galfons Removed 0.17 0.33 0.43 0.61	Water Level (RTG) 6.79 6.19 7.14	YSIS Tomp. (Cointum) [3%]*	Perietatic Pum Pump Type: Samples collect pH  [0.1 units]*	Su (ms/cm)	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP  \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Other/Sp n? (Y) N (spec O 3-9 Q OO (mg/l) [10% or 0.1 mg/l]	(mV)
Minut Volume of W Dis 11:30 11:35 11:35 11:45 11:50 12:00	imp Stop Time see of Pumping sater Removed I Wall Go Dry? Water Quality if Pump Rate (L/min.) 125 125 125 100 100	15:50 265 7 (8) 10:50 7 (8) 10:43 10:43 10:43 10:43 10:43 10:43 10:43	Water Level (N TIC) 6.96 6.19 7.14 7.59	Y515 Temp. (Coloitum) [3%]*	Perietatic Pum Pump Type: Samples collect pH (0.1 units)	Su (ms/cm)	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP  \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Other/Sp n? (Y) N (spec O 3-9 Q OO (mg/l) [10% or 0.1 mg/l]	ORP (mV)
Minute of W Did	imp Stop Time se of Pumping ster Removed Well Go Dry? Water Quality It Pump Rate (Limin.) 125 125 100 100	15:50 265 265 Y (R) Actor Type(e)/St Total Gailcone Removed 0.17 0.33 0.43 0.61 0.74 1.00	Water Level (RTIG) 6.79 6.19 7.14 7.59 7.75	Y515 Temp. (Coloitum) [3%]*	Perietatic Pum Pump Type: Samples collect pH (0.1 units)*	Sur Cond.  (m8/cm)  [3%]	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP 135 110 114 110 115	Other/Spanner/	ORP (mV)
Minute of W Discourse	imp Stop Time see of Pumping ster Removed I Wall Go Dry? Water Quality in Pump Rate (L/min.) 125 125 125 100 100	15:50 265 7 (8) Noter Type(e)/Sc Gallone Removed 0.17 0.33 0.43 0.61 0.74 1-00 1-90	Water Level (RTIC) 6.72 6.96 6.19 7.14 7.59 7.75	YS   5	Perietatic Pum Pump Type: Samples collect pH  (0.1 units)*	Sp. Cond. (mS/cm) [3%]	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP 13% 110 114 110 115 138 139	Other/Spanner/	GRP (mV)
Minute Volume of W Discourse of W Di	imp Stop Time see of Pumping ster Removed I Wall Go Dry? Water Quality in Pump Rate (L/min.) 125 125 125 100 100 100 no criteria for ea	15:50 265 7 (8) Noter Type(e)/Sc Galicone Removed 0.17 0.33 0.43 0.61 0.74 1.00 1.80 Ich field permoved	Water Level (N TIC) 6.72 6.96 6.19 7.14 7.59 7.75 7.61 er (three cones	YS   5	Perietatic Pum Pump Type: Samples collect pH  (0.1 units)*	Sp. Cond. (mS/cm) [3%]	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP 13% 110 114 110 115 138 139	Other/Spanner/	ORP (mV)
Minute Volume of W Dic Volume	imp Stop Time see of Pumping ster Removed I Well Go Dry? Water Quality it Pump Rate (L/min.) 135 135 100 100 100 100 in criteria for ea	Total Galione Removed 0.17 0.33 0.43 0.61 0.74 1.90 1.80 Inch field persone	Water Level (RTIC) 6.73 6.96 6.19 7.14 7.59 7.75 7.61 ar (three conesc	Tomp. (Colaium) (3%)"	Perietatic Pum Pump Type: Samples collect pH  (0.1 units)*	Supplier of the supplier of th	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP 13% 110 114 110 115 138 139	Other/Sp n? (Y) N (spec O 39 Q OO (mg/l) [10% or 0.1 mg/l]	ORP (mV)
Minute Volume of W Dic Volume	imp Stop Time see of Pumping ster Removed I Well Go Dry? Water Quality it Pump Rate (L/min.) 135 135 100 100 100 100 in criteria for ea	15:50 265 7 (8) Noter Type(e)/Sc Galicone Removed 0.17 0.33 0.43 0.61 0.74 1.00 1.80 Ich field permoved	Water Level (RTIC) 6.73 6.96 6.19 7.14 7.59 7.75 7.61 ar (three conesc	Tomp. (Colaium) (3%)"	Perietatic Pum Pump Type: Samples collect pH  (0.1 units)*	Supplier of the supplier of th	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP 13% 110 114 110 115 138 139	Other/Spanner/	ORP (mV)
Minute Volume of W Diction 1	Imp Stop Time see of Pumping fater Removed I Well Go Dry? Water Quality it Pump Rate (Limin.) 135 135 100 100 100 100 In criteria for ea	15:50 265 7 (R)  Actor Type(e)/S  Total Galfons Removed 0.17 0.33 0.43 0.61 0.74 1.00 1.90 1.80  India field parameter field fie	Water Level (RTIG) 6.79 6.19 7.14 7.59 7.75 7.75 7.61 ar (three cones	Tomp. (Colaium) [3%]	Perietatic Pum Pump Type: Samples collect pH  (0.1 units)*	Supplier of the supplier of th	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP 13% 110 114 110 115 138 139	Other/Spanner/	ORP (mV)
Minute Volume of W Diction 1	imp Stop Time see of Pumping ster Removed I Well Go Dry? Water Quality it Pump Rate (Limin.) 135 135 100 100 100 100 in criteria for ea	15:50 265 7 (R)  Actor Type(e)/S  Total Galfons Removed 0.17 0.33 0.43 0.61 0.74 1.00 1.90 1.80  India field parameter field fie	Water Level (RTIC) 6.73 6.96 6.19 7.14 7.59 7.75 7.61 ar (three conesc	Tomp. (Colaium) [3%]	Perietatic Pum Pump Type: Samples collect pH  (0.1 units)*	Supplier of the supplier of th	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP 13% 110 114 110 115 138 139	Other/Spanner/	ORP (mV)
Minute Volume of W Disc.  Time  11:30  11:35  11:38  11:45  11:50  12:15  12:30  The stabilization of Westman	Imp Stop Time see of Pumping ster Removed Well Go Dry? Water Quality It Pump Rate (Limin.) 135 135 135 100 100 100 100 INCO INCO INCO INCO INCO INCO INCO INCO	15:50 265 7 (R)  Actor Type(e)/S  Total Galfons Removed 0.17 0.33 0.43 0.61 0.74 1.00 1.90 1.80  India field parameter field fie	Water Level (RTIG) 6.79 6.19 7.14 7.59 7.75 7.75 7.61 ar (three cones	Tomp. (Colaium) [3%]	Perietatic Pum Pump Type: Samples collect pH  (0.1 units)*	Supplier of the supplier of th	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP 13% 110 114 110 115 138 139	Other/Spanner/	ORP (mV)
Minute Volume of W Dic Volume	Imp Stop Time are of Pumping ster Removed I Wall Go Dry? Water Quality in Pump Rate (L/min.) 125 125 100 100 100 100 100 INCLUDITE STANPLING INTERIOR	15:50 265 7 (8) Actor Type(e)/S Total Galfons Removed 0.17 0.33 0.43 0.61 0.74 1.00 1.90 1.80 Ich field personet atterthold dievis	Water Level (RTIG) 6.79 6.19 7.14 7.59 7.75 7.75 7.61 ar (three cones	Tomp. (Coloium) [3%]*	Perietatic Pum Pump Type: Samples collect  pH  (0.1 units)*  collected at 3- to TAPPED PA  NOO COX	Survey Su	thod as evacuation  Turbidity (NTU) (10% or 1 NTUP 13% 110 114 110 115 138 139	Other/Spanner/	ORP (mV)

Site/GMA 'Name	GMB3
Sampling Personnel	O. BORUE
Date	Slilox
Weather	Surry 600F
	Sampling Personnel Date

#### 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]*
12:35	100	1.93	7.65	-	_		111	-	
12:45	75	2.13	7.68	٠			\33	_	
13:00	75	2.43	7.60	ىن		_	135		_
13:05	75	2.53	7.60	<b></b>	_		107	-	
13:15	75	2.73	7.54				116		
13:25	75	2.93	752				103	,	
13:35	75	3.13	7.49	_		-	97	-	~
13:45	60	3.29	7.41	-	-	~	51	_	
13:55	60/15	3.49	7.46		_	-	79	<u></u>	-
14:05	75	3.69	7.51	_			69	_	
14:10	<u>75</u>	3.79	7.52		~	_	59	-	-
61:17	75	3.83	7.53	<u> </u>	_	_	50		, -
14:30	<u> 75</u>	3.99	7.49	14,99	7.85	5,433	54	4.40	-1543
14:35	75	4.09	7.50	15.05	7.93	5.457	48	1,39	-165.0
14:30	75	4.19	7.51	14,98	7,93	5,480	39	0,90	-1687
14:35	75	4.29	7,52	15.21	7,93	5,488	40	65,0	-172,6
14:40	75	4.39	7.53	15,09	7.93	5,518	36	0.68	-172.2
14:45	75	4.49	7.54	15.08	7,93	5,510	_30_	0.68	-172,7
14:48	75	4.55	7.55	15:11	7,95	5.517	29	0.68	-174.0
14:51	75	4.61	7.55	14.95	7,94	5,503	28	0.66	-168.6
14:54	75	4.67	7,55	14.89	7,94	5,499	27	0.65	-1655
14:67		4.73	7.56	רר.או	7.93	5,503	อา	0,63	-1619

* 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						
FILM PURCE WAS CLEAR WITH	MODERVATY (2008					

110	B-R.		<u>~</u>		GMA3-	3 4		
40-444 44-44	Ex-37		Sampl	ing Personnel	KIC.	DA7 100	12	
PID Background (pr			· · · · · · · · · · · · · · · · · ·	Date	3 447	6/1/08		
Men Hendebuce (b)			<u>.</u>	Wester	1005	Sunny		
	-					Samuela Ylena	1/2 B-12	1140
L INFORMATION						Semple I me Semple ID	10:40	
Reference Point Merk	ed? Y N		90 0	•		Semple ID Duplicate ID	75.7	
Height of Reference P	oint $^{3}$	Mees, From	\$ Grand	ح		Unibertain In	16B-RMS	MSD
144. # Pilem	7 "		D ( C			·Spill Sample ID		
Screen Interval De	0.51-80 <u>5</u> 5	Mess. From	P02	-		. oher centures in		
Water Table Di	pth 8.98	Mess. From	TIC	-	Required	Analytical	Parameters:	Collected
Wed Do		_ Mess. From	,	-	(X)		(Std. list)	(A)
Length of Water Colo	mn 7.58'	7			104		(Exp. list)	( )
Volume of Water in \		ຼ Meas, From	TIC		, ,	<b>s</b> \	/OCa	( )
ake Depth of Pump/Tul	ing 2 / 5 '	Nees, Pom		-	( )	PCB	(Total)	( )
					( )	PCBs (	Dissolved)	( )
runce Point Identificati					( )	Metale/Inci	ganics (Yotel)	( )
Top of Inner (PVC) Ca					( )	Metals/Inorga	nics (Dissolved)	( )
: Top of Outer (Protect te/BGS: Ground Surfa					( )	EPA Cyani	de (Dissolvad)	( )
INGUS: GIDUNG SUNS	•				( )		de (Dissolved)	( )
evelop? Y (N)					( )		s/PCDFs	( )
					( )		n/Herbicides	( )
					(X)		Attenuation	( <del>\( \)</del>
					( )	Ciller	(Specify)	( )
CUATION INFORMAT		•						
Pump Start Ti	m 0915	-		P4	thad: Bailer (	) Blackfar F	ump (X)	
Pump Stop Ti	m 11:05		•	Evacuation Ma	NING; DESTI	•	• • •	
, , and p = p	11.			Dealer He Char	n / 1 Sul	briersible Purno (	) (100	ecify ( )
Minutes of Purio	na 110	~ ~ 1/ >		Peristatic Pum	` <b>W</b>	bmersible Pump ( カールーンシット		ecry ( )
Minutes of Purio	na 110	allons		Primp Type:	Marse	halk-Sust	mane	
Minutes of Pump clume of Water Remov	ng <u>/10</u> ed <u>2.25</u> e	ullone		Pump Type: Semples collec	ted by same ma	thalk - Syste thad as evecuation	m Que	(V)
Minutes of Pump clume of Water Remov	ng <u>/10</u> ed <u>2.25</u> e	ellon d	YSI 556	Pump Type: Semples collec	ted by same ma	thalk - Syste thad as evecuation	m Que	(V)
Minutes of Pump clume of Water Remov	ng <u>/10</u> ed <u>2.25</u> e	ellon d	<del></del>	Pump Type: Samples collect	Maric ted by serve ma	halk-Systa thod an evacuation Al #3, #	ALH 21C	(V)
Minutes of Pump Jume of Water Remov	ng // / / / / / / / / / / / / / / / / /	Serial Numbers: Water	Temp.	Pump Type: Semples collec	May serve me  30:401	halk - Systa thod se evecuation Al #3 , Al	m Que	m Dolan
Minutes of Pump ume of Water Remov Did Well Go D Water Qual Pump Rate	ng 110 ed Z_Z_S_9 y? Y B ty Meter Type(e)/5 Total Gallone	Seriei Numbers: Water Level	Temp. (Celalus)	Pump Type: Samples collect	30:401  Sp. Cond.  (inSign)	halk-Such Al #3, 4) Turbidity (NTU)	DO (mg/f)	ORP (mV)
Minutes of Pump iums of Water Remov Did Well Go D Water Quell Pump	ng // / / / / / / / / / / / / / / / / /	Water Level (R TIG)	Temp.	Pump Type: Samples collect	May serve me  30:401	内。「R - System thool are evacuation A I 本 S	OD DO	ORP (mV)
Minutes of Pump plume of Water Remov Did Well Go D Water Quell Pump Time Rate (L/min.)	ng 110 ed Z_Z_S_9 y? Y B ty Meter Type(e)/5 Total Gallone	Seriei Numbers: Water Level	Temp. (Celalus)	Pump Type: Samples collect	May FC ted by same me 30: 40 (c) [Sp. Cored. (instern) [3%]*	halk-Such Al #3, 4) Turbidity (NTU)	DO (mg/f)	ORP (mV)
Minutes of Pump Johnne of Water Remov Did Well Go D Water Quell Pump Time Rate (L/min.)	y Meter Type(e)/S Total Gallone Removed	Water Level (RTIG)	Temp. (Calaius) [3%]*	Pump Type: Samples collec  PMS 0  pH  [0.1 units]*	30:401  Sp. Cond.  (inSign)	内。「R - System thool are evacuation A I 本 S	DO (mg/f)	ORP (mV)
Minutes of Pump Tolume of Water Removable Did Well Go D  Water Quell Pump Time Pump Rate (Limits) 930 /25	y Meter Type(e)/S Total Gallone Removed  0.40  0.57	Water Level (R TIG) 9, 55	Temp. (Calaium) [3%]"	Pump Type: Samples collect  MS 0  pH  (0.1 units)*	May se the dead by serie me 30; 400/ (in \$10m) [3%]*	halk - Systa  thod an evacuation  A I  #3 , #1  Turbidity  (NTU)  [10% or 1 NTUP  23	DO (mg/l) (10% or 0.1 mg/l)	ORP (mV) [10 mV]*
Minutes of Pump John Pump Did Weil Go D  Water Quell Pump Time Rate (L/min.)	y Meter Type(e)/S Total Gallone Removed	Water Level (RTIG)	Temp. (Calaius) [3%]*	Pump Type: Samples collect  MS 0  pH  (0.1 units)*	May se the serie me 30:40/01  Sp. Cond. (millern) [3%]*  1,607	halk-System and an evacuation All  #3, 4  Turbidity (NTU) (10% or 1 NTUP  23  16	DO (mg/f) [10% or 0.1 mg/f]	ORP (mV) [10 mV]
Minutes of Pump olume of Water Remove Did Well Go D  Water Quell  Pump Rate (L/min.)  930 /25  935 106	10   2   2   5   9   9   9   9   9   9   9   9   9	Water Level (R TIG) 9, 55	Temp. (Calaium) [3%]"	Pump Type: Samples collect  MS 0  pH  (0.1 units)*	May se the dead by serie me 30; 400/ (in \$10m) [3%]*	halk - Systa  thod an evacuation  A I  #3 , #1  Turbidity  (NTU)  [10% or 1 NTUP  23	DO (mg/l) (10% or 0.1 mg/l)	ORP (mV) [10 mV]*
Minutes of Pump Dict Well Go D  Water Quell  Pump Rate (L/min.)  930 /25  935 /00  940 /00	10   2   2   5   9   9   9   9   9   9   9   9   9	Water Level (R TIC) 9,55 9,76 9,85 9,91	Temp. (Catalus) [3%]  09.57  9.46  9.26	Pump Type: Samples collect  MPS 0  pH  (0.1 units)*  7.15  7.19	May se the state by same me 30; 40/10/10/10/10/10/10/10/10/10/10/10/10/10	halk-System and an evacuation All  #3, 4  Turbidity (NTU) (10% or 1 NTUP  23  16	DO (mg/l) [10% or 0.1 mg/l] [10,08] 7.75	ORP (mV) [10 mV]* /42,7- /36,0
Minutes of Pump Dict Well Go D  Water Quell  Pump Rate (L/min.)  930 /25  935 /00  940 /00	10   2   2   5   9   9   9   9   9   9   9   9   9	Water Level (RTIG) 9,65 9,76 9,85	Tomp. (Calatus) [3%]  09.57  9.46  9.26  9.41	Pump Type: Samples collect  MPS 0  pH  (0.1 units)*  7.15  7.19  7.18	May se the second of the secon	halk-System of All #3, 41  Turbidity (NTU) (10% or 1 NTUP  23  16  14  13	10,08 7,51	ORP (mV) [10 mV] (MZ, 7+ 136.0) [19.1]
Minutes of Pump plume of Water Remov Did Well Go D  Water Qual  Pump Time Rate (L/min.)  930 /25  935 /00  946 /00  945 /00	ng 110 nd 2.259 ye Y B  y Meter Type(e)/5 Total Gallone Removed 0.40 0.57 0.70 0.83 0.96	Water Level (R TIG) 9, 55 9, 76 9, 85 9, 91	Temp. (Catalus) [3%]  09.57  9.46  9.26	Pump Type: Samples collect  MPS 0  pH  (0.1 units)*  7.15  7.19	May se the state by same me 30; 40/10/10/10/10/10/10/10/10/10/10/10/10/10	halk-System of All #3, 41  Turbidity (NTU) (10% or 1 NTUP  23  16  14  13	17 (P) N (spec) ACH 21C  DO (mg/l) [10% or 0.1 mg/l]  10,08 7,75 6,54 5,51 4,92	ORP (mV) [10 mV] 1/42,7 136,0 [19,1] 91,] 44,3
Minutes of Pump olume of Water Removable Did Well Go D Water Quell Pump Rate (Limits) 930 /25 935 /00 940 /00 945 /00 950 75	10   2   2   5   9   9   10   10   10   10   10   10	Water Level (RTIG) 9,65 9,76 9,85 9,91 10,13	Temp. (Coistum) [3%]  09.57  9.46  9.26  9.21  9.83	Pump Type: Samples collect  MPS 0  pH  j0.1 units!*  7.15  7.18  7.18  7.18	Marsc 30:46/ Sp. Cond. (InStan) [3%]* 1.607 1.519 1.519 1.511 1.547	halk-System of All #3, 41  Turbidity (NTU) (10% or 1 NTUP  23  16  14  13	10,08 7,51	ORP (mV) [10 mV] (MZ, 7+ 136.0) [19.1]
Minutes of Pump plume of Water Remove Did Well Go D Water Quell Time Rate (Linein) 0925   150 930   125 935   100 946   100 955   75 955   75	10   2.259   Y   10   10   10   10   10   10   10	Water Level (RTIG) 9,65 9,76 9,85 9,91 10.13 10.16 10.32	Temp. (Catalus) [3%]  09.57  9.46  9.26  9.21  9.83  9.88	Pump Type: Samples collect  MPS 0  pH  10.1 units*  7.15  7.19  7.18  7.18  7.18	Marsc and by same me 30:461  [39. Cord. (mStern) (3%)*  [367]  [509]  [509]  [51]  [51]  [547]	halk-Systa  thod an evacuation  A 1  #3 , 4  Turbidity  (NTU)  (10% or 1 NTUP  23  10  13  11  1	10,08 7,75 10,08 7,75 6,54 5,51 4,92 4,38	ORP (mV) [10 mV) [10 mV] [136.0   119.1   91.   44.3   23.0
Minutes of Pump turns of Water Removal Did Well Go D Weter Qualification   Pump Rate (L/min.) 0925 /50 030 /25 035 /00 040 /00 0450 75 050 75	10 10 2.259 17 Y B 19 Motor Type(e)/5 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Water Level (RTIC) 9,65 9,76 9,85 9,91 10,13 10,16 10,32	Tomp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88	Pump Type: Samples collect  MPS 0  pH  10.1 unles*  7.15  7.19  7.18  7.18  7.18  7.00	Marse and by series med by series med by series med and a series med a series med a series med and a series med a series med and a series med a series m	halk-Sushing the sustained an evacuation of the sustained an evacuation of the sustained at	17 (P) N (special P) (P) N (special P) (P) N (special P) (special	ORP (mV) [10 mV] 1/42,7 136,0 [19,1] 91,] 44,3
Minutes of Pump District of Water Remove Did Well Go D  Water Quell  Pump Rate (L/min.)  0925 /50  930 /25  935 /00  946 /00  945 100  950 75  955 75	10 10 2.259 17 Y B 19 Motor Type(e)/5 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Water Level (RTIC) 9,65 9,76 9,85 9,91 10,13 10,16 10,32	Tomp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88	Pump Type: Samples collect  MPS 0  pH  10.1 unles*  7.15  7.19  7.18  7.18  7.18  7.00	Marse and by series med by series med by series med and a series med a series med a series med and a series med a series med and a series med a series m	halk-Sushing the sustained an evacuation of the sustained an evacuation of the sustained at	17 (P) N (special P) (P) N (special P) (P) N (special P) (special	ORP (mV) [10 mV) [10 mV] [136.0   119.1   91.   44.3   23.0
Minutes of Pump	10   2.2.5   9   10   2.2.5   9   10   10   10   10   10   10   10	Water Level (R TIG)  9.55  9.35  9.85  9.91  10.13  10.16  10.32  10.50  ter (three consec	Tomp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88	Pump Type: Samples collect  MPS 0  pH  10.1 unles*  7.15  7.19  7.18  7.18  7.18  7.00	Marse and by same med 30:401  [39. Cord. (mstern) (39.)  [39.]  [509]  [509]  [509]  [509]  [509]  [509]  [509]  [509]  [509]  [509]  [509]	halk-Sushing the sustained an evacuation of the sustained an evacuation of the sustained at	10,08 7,75 6,54 5,51 4,92 4,38 3,82 column heading.	ORP (mV) [10 mVP] /42,7 /36,0  19,1  41,3  23,0  34,/
Minutes of Pump	10   2.259   Y   B   Y   Y	Water Level (RTIC) 9,65 9,76 9,85 9,91  0.13  0.16  10,32  10,50    or (three conec	Temp. (Colorium) [3%]  09.57  9.46  9.26  9.41  9.83  9.88  10.01  public readings of	Pump Type: Samples collect MPS 0  pH  j0.1 units!*  7.15  7.18  7.18  7.18  7.18  7.18	Marse ted by seme me 30:40/1  [3p, Cond., (m8/cm) [3%]*  1,607  1,609  1,519  1,547  1,583  1,653  6-minute interval	halk-Sushing the sustained an evacuation of the sustained an evacuation of the sustained at	10,08 7,75 6,54 5,51 4,92 4,38 3,82 column heading.	ORP (mV) [10 mVP] /42,7 /36,0  19,1  41,3  23,0  34,/
Minutes of Pump	10   2.259   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   Y	Water Level (RTIG) 9,66 9,86 9,85 9,91 10,13 10,16 10,32 10,50 ter (three consect	Temp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88  10.01  sultre readings of the property	Pump Type: Samples collect  MPS 0  pH  10.1 units!*  7.15  7.18  7.18  7.18  7.18  7.18  7.18	Marse tool by serie me 30:401  Sp. Cord. (instan) (3%)*  1.607  1.519  1.511  1.547  1.583  1.653  5-minute interven	halk-Sushing the sustained an evacuation of the sustained an evacuation of the sustained at	10,08 7,75 6,54 5,51 4,92 4,38 3,82 column heading.	ORP (mV) [10 mV) [10 mV] [136.0   119.1   91.   44.3   23.0
Minutes of Pump	10   2.259   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   Y	Wester Level (RTIG) 9,55 9,76 9,85 9,91 10.13 10.16 10.32 10.50 ter (three consect	Temp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88  10.01  sultre readings of the point o	Pump Type: Samples collect  MPS 0  pH  i0.1 units!  7.15  7.19  7.18  7.18  7.18  7.18  7.18  7.18	May se the day serve me 30:40/1 [34] [34] [34] [34] [34] [34] [34] [34]	halk - Such All All All All All All All All All Al	10,08 7,75 6,54 5,51 4,92 4,38 3,82 column heading.	ORP (mV) [10 mVP] /42,7 /36,0  19,1  41,3  23,0  34,/
Minutes of Pump	10   2.259   Y   B   Y   Y	Water Level (RTIG) 9,66 9,86 9,85 9,91 10,13 10,16 10,32 10,50 ter (three consect	Temp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88  10.01  sultre readings of the point o	Pump Type: Samples collect  MPS 0  pH  i0.1 units!  7.15  7.19  7.18  7.18  7.18  7.18  7.18  7.18	Marse tool by serie me 30:401  Sp. Cord. (instan) (3%)*  1.607  1.519  1.511  1.547  1.583  1.653  5-minute interven	halk - Such All All All All All All All All All Al	10,08 7,75 6,54 5,51 4,92 4,38 3,82 column heading.	ORP (mV) [10 mVP] /42,7 /36,0  19,1  41,3  23,0  34,/
Minutes of Pump	10   2.259   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   Y	Wester Level (RTIG) 9,55 9,76 9,85 9,91 10.13 10.16 10.32 10.50 ter (three consect	Temp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88  10.01  sultre readings of the point o	Pump Type: Samples collect  MPS 0  pH  i0.1 units!  7.15  7.19  7.18  7.18  7.18  7.18  7.18  7.18	May se the day serve me 30:40/1 [34] [34] [34] [34] [34] [34] [34] [34]	halk - Such All All All All All All All All All Al	10,08 7,75 6,54 5,51 4,92 4,38 3,82 column heading.	ORP (mV) [10 mVP] /42,7 /36,0  19,1  41,3  23,0  34,/
Minutes of Pump Tolume of Water Remova Did Well Go D Water Quell Pump Time Rute (Limin.) 0925 /50 930 /25 935 /00 940 /00 940 /00 950 75 955 75 000 75 0 stabilization criteria for ERVATIONS/SAMPLIN N had Progress VSI Coxce	10   2.259   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   Y	Wester Level (RTIG) 9,55 9,76 9,85 9,91 10.13 10.16 10.32 10.50 ter (three consect	Temp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88  10.01  sultre readings of the point o	Pump Type: Samples collect  MPS 0  pH  i0.1 units!  7.15  7.19  7.18  7.18  7.18  7.18  7.18  7.18	May se the day serve me 30:40/1 [34] [34] [34] [34] [34] [34] [34] [34]	halk - Such All All All All All All All All All Al	10,08 7,75 6,54 5,51 4,92 4,38 3,82 column heading.	ORP (mV) [10 mVP] /42,7 /36,0  19,1  41,3  23,0  34,/
Minutes of Pump plume of Water Remove Did Well Go D Water Quali  Pump Time Rate (Limin.) 0925 /50 930 /25 935 /60 940 /60 945 /00 955 75 00 75 debitation criteria for ERVATIONS/SAMPLE // S.T. COX	10   2.259   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   Y	Wester Level (RTIG) 9,55 9,76 9,85 9,91 10.13 10.16 10.32 10.50 ter (three consect	Temp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88  10.01  sultre readings of the point o	Pump Type: Samples collect  MPS 0  pH  i0.1 units!  7.15  7.19  7.18  7.18  7.18  7.18  7.18  7.18	May se the day serve me 30:40/1 [34] [34] [34] [34] [34] [34] [34] [34]	halk - Such All All All All All All All All All Al	10,08 7,75 6,54 5,51 4,92 4,38 3,82 column heading.	ORP (mV) [10 mV] 1/42,7 136,0 119,1 91,1 44,3 23,0
Minutes of Pump	10   2.259   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   B   Y   Y	Wester Level (RTIG) 9,55 9,76 9,85 9,91 10.13 10.16 10.32 10.50 ter (three consect	Temp. (Catalus) [3%]  09.57  9.46  9.26  9.41  9.83  9.88  10.01  sultre readings of the point o	Pump Type: Samples collect  MPS 0  pH  i0.1 units!  7.15  7.19  7.18  7.18  7.18  7.18  7.18  7.18	May se the day serve me 30:40/1 [34] [34] [34] [34] [34] [34] [34] [34]	halk - Such All All All All All All All All All Al	10,08 7,75 6,54 5,51 4,92 4,38 3,82 column heading.	ORP (mV) [10 mV] 1/42,7 136,0 119,1 91,1 44,3 23,0

Well No.	168-R	Site/GMA 'Name	GMA3-GEP, Hofill
		Sampling Personnel	RIC/DAZ
		Date	5/1/08
		Weather	603 Junny

#### WELL INFORMATION - See Page 1

; Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Ceisius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/ī) [10% or 0.1 mg/i]*	ORP (mV) [10 mV]*
1005	75	1.36	10,55	10,19	7,21	1.672	5	3.62	-11,9
1010	75	1.46	10,63	10,20	722	1.711	4	3,52	-24,0
1015	76	1-55	10,73	10.20	7,22	1,732	4	3,42	-25.9
1000	75	1-65	10,77	10,55	736	1,751	4	3.16	-34 · D
1025	75	1.75	10,50	10,56	7,22	1,765	4	2,88	-40.1
1028	75	1.81	10.88	10.71	7,23	1,772		2175	-40,3
1031	75	1-87	10.98	10,56	7,21	1.784	3	2.64	-40.7
1034	75	1.93	10.93	10.78	7,24	1.784	3 3	2,57	-47.1
1037	75	1-99	10.96	10.65	7,25	1.8DS	3	2.52	-49.5
1040		$\rightarrow$	San	Selq.	0 10	40			
					·				•
							,		
									· · · · · · · · · · · · · · · · · · ·
							***************************************		
						1			
•									

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

	Ground (ppm)				Wasting	Sopor	40		
Well Hes	qeface (bbw)			•		-3-1348434-1-		10155	
RL MFORM	ATION						Sample Time	10:55	
Reference	Point Merked?				1		Sample ID Duplicate ID	16-1	
Height of	telerence Point		_ Mees. From		•		MSMSD	**	
Same	Well Diameter	77 / 60	Meas. From	Gnound			Spilt Sample ID		
	er Table Capit	7,30	Mana From	アル	,		Anabelinal	Parameters:	Collected
		94.80	Mess. From	716	•	Required (X)		(Std. let)	(X)
Length o	Water Column Water in Wall	15.479	allane			(3)		(Exp. list)	( )
take Depth	of Pump/Tubing	95	Meas. From	TU	•	( )		/OCs h (Toisi)	( )
						( )		Dissolved)	( )
	<u>t Identification:</u> er (PVC) Casin;					( )		ganics (Total)	( )
	et (Frojective)					( )		nice (Disectved) de (Disectved)	( )
	round Surface	•				( )		de (Dissolved)	( )
develop?	v (W)					<i>( )</i>	PCDD	s/PCDFs	( )
ne servite t						( )		n/Herbicides Attenuation	( ) ( <b>)</b>
						$\langle \mathcal{A} \rangle$		(Specify)	(~)
P Minu Valume of V	imp Start Time imp Stop Time les of Pumping fater Removed I Well Go Dry?	11:15 80 ~2.6,	ullons	•	Evacuation Me Peristatic Pum Pump Type: Samples collec	(SEDEROM)	omersible Pump (	n? (Y) N (speci	( <del>y</del> )
Pi Minu Volume of Vi Di	amp Stop Time tee of Pumping fater Removed I Well Go Dry?	~2.6,	iorial Numbers:	YS1 5	Peristetic Pum Pump Type: Samples collec	DEDPOM DEDPOM ted by same me	omersible Pump (	) Other/Spe	( <del>y</del> )
Pi Minu Volume of Vi Di	omp Stop Time the of Pumping fater Removed it Well Go Dry? Water Quality N	7 (h) / Total		Tomp.	Peristatic Pum	Sulphone Sul	omersible Pump (  phod as evacuation  Hack  Turbidity  (NTU)	Other/Spa	ORP
P Minu Valume of V Di	ump Stop Time the of Pumping fater Removed I Well Go Dry? Water Quality N	80 ~2.6 Y (1)     Noter Type(s)/S	orial Numbers:	YS1 5	Peristetic Pum Pump Type: Samples collec	Sulphonic Sulpho	omersible Pump (  phod as evacuation  Hack  Turbidity  (NTU)	) Office/Spa	orp
P. Minu Volume of V Di	amp Stop Time tee of Pumping fater Removed i Well Go Dry?  Water Quality N Pump Rate	Total Gallone	erial Numbers: Water Level	Tomp. (Caisius) [3%]*	Peristetic Pum Pump Type: Samples collect pH  [0.1 units]*	sulted by same med	omersible Pump (  phod as evacuation  Hack  Turbidity  (NTU)	) Other/Spa n7 Y N (spaci 2/00 P DO (mg/f) [10% or 0.1 mg/f)	ORP (mV) [10 mVP
Minu Volume of V Di	emp Stop Time the of Pumping fater Removed it Well Go Dry? Water Quality N Pump Rate (L/min.)	Y N Total Gallone Removed	Water Level (R TIC)	Tomp. (Calatus) [3%]*	Peristatic Pum Pump Type: Samples collect	sulted by same med	Turbidity (NTU)	) Other/Spa n? (Y) N (space) 2 / 00 P DO (mg/l) [10% or 0.1 mg/l)*	ORP
Pi Minu Volume of Vi Di	imp Stop Time tee of Pumping fater Removed it Well Go Dry?  Water Quality M  Pump Rate (Limin.)	Total Gallone Removed  0.17	Water Level (N TIC)	Tomp. (Caisius) [3%]*	Peristetic Pum Pump Type: Samples collect pH  [0.1 units]*	sulted by same med	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/f) [10% or 0.1 mg/f]	ORP (mv) [10 mv) [154.7
Minu Valume of V Di Time  0:00 0:10	omp Stop Time the of Pumping falor Removed ti Well Go Dry?  Water Quality N  Pump  Rate (Limin.)  \25	Total Gallone Removed 0.17 0.33	Water Level (R TIC)	Tomp. (Caletus) (3%)" - 1063 10.54	Peristetic Pum Pump Type: Samples collect pH [0.1 units]*	Sp. Cond. (mSiem)	Turbidity (NTU) (10% or 1 NTU)	00 (mg/f) [10% or 0.1 mg/f] 3,55	ORP (mV) [10 mVP
Pi Minu Valume of W Di Time	Imp Stop Time the of Pumping falar Removed it Well Go Dry?  Water Quality M  Pump  Rate (L/min.)  \25 \25	Total Gallone Removed  0.17  0.33  0.50  0.66	Water Level (R TIC) 7.39 7.96 8.51	Terrys. (Calakus) [3%]* - \063	Peristatic Pum Pump Type: Samples collect pH [0.1 units]* 7,6%	Sp. Cond. (Instein) 13%1*  0.352 0.349	Turbeliky (NTU)	DO (mg/f) [10% or 0.1 mg/f]	ORP (mv) [10 mv) [154.7
Time  0:00 0:15 0:30	Imp Stop Time the of Pumping fatar Removed it Well Go Dry?  Water Quality IV  Pump Rate (L/min.)  125  125	7 (1) 7	Water Level (NTIG) 7.39 7.96 8.51 9.11	Tomp. (Cadeline) 13%1" 1063 10.54 10.60	Peristatic Pum Pump Type: Samples collect  pH  (0.1 unite)*  - 7,6%  7,72  7,7%  7,7%	Sulfano   Sulf	Turbidity (NTU) (10% or 1 NTU)	00 (mg/f) [10% or 0.1 mg/f] 3,55	ORP (mV) [10 mVP
Pi Minu Volume of W Di Volume Of W D	Imp Stop Time the of Pumping falor Removed I Well Go Dry? Water Quality M Pump Rate (Limin.) 125 125 125	7 (N) 7 Noter Type(e)/S Total Gallone Removed 0.17 0.33 0.50 0.66 0.83 0.99	Water Level (R TIC) 7.39 7.96 8.51 9.11 9.46	Tomp. (Calakua) [35]* - 1063 10.54 10.60 10.71	Peristatic Pum Pump Type: Samples collect  566 Y  pH  [0.1 units]*   7.68  7.72  7.75  7.95	Sp. Cond. (m8/cm) [3%]  0.249  0.244  0.244	Turbidity (NTU) (10% or 1 NTU) (O	DO (mg/f) [10% or 0.1 mg/f] 7 3.5% 2.60 2.35	ORP (mV) [10 mVP 154.7 147.2
Time 0:00 0:15 0:30 0:30	Imp Stop Time the of Pumping fatar Removed it Well Go Dry? Water Quality IV Pump Rate (Limin.) 125 125 125	7 (P) 7    v (P) 7   v (P)	Water Level (RTIG) 7.39 7.96 8.51 9.11 9.46 9.87	Tomp. (Cadatus) 13%1" 1063 10.54 10.60 10.71 10.732	Peristatic Pum Pump Type: Samples collect 566 Y pH (0.1 units)* 7,72 7,75 7,75 7,95	Sp. Cond.  (mStem)  1341  0.344  0.345  0.346  0.346	Turbidity (NTU) (10% or 1 NTU)	00 (mg/f) [10% or 0.1 mg/f)	ORP (mv) [10 mvp  154.7 147.6 144.7 139.0
Pi Minu Volume of W Di Volume Of W D	Imp Stop Time the of Pumping falar Removed it Well Go Dry?  Water Quality N  Pump Rate (L/min.)  125 125 125 125	7 (N) 7  Noter Type(e)/S  Total Gallone Removed  0.17  0.33  0.50  0.66  0.83  0.99  1.16	Water Level (RTIG) 7.39 7.96 8.51 9.11 9.146 9.51	Tomp. (Catalus) [3%]" - 1063 - 10.54 - 10.60 - 10.762 - 10.784 - 10.91	Perioditic Pum Pump Type: Samples collect 56 Y pH (0.1 units)* -7,72 7,73 7,75 7,95 7,95	Syl Cond.  Sp. Cond.  (mskem)  1341  0.344  0.345  0.346  0.346	Turbidity (NTU) (10% or 1 NTU)  6  5  6  6  6  6  6  6	00 (mg/f) [10% or 0.1 mg/f] 2.50 2.55 2.60 2.35 2.03 1.94 1.86 accolumn heading.	ORP (mv) [10 mv) [154.7] 147.6 144.7 139.0 135.6
Pi Minu Volume of W Di Volume Of W D	Imp Stop Time the of Pumping falar Removed it Well Go Dry?  Water Quality M  Pump Rate (L/min.)  125 125 125 125 125 125 125 125 125 12	Total Gallone Removed  0.17  0.33  0.50  0.66  0.83  0.99  1.16  1.32  ch field parameter	Water Level (19 TIC) 7.39 7.96 8.51 9.11 9.46 9.87 10.30 10.51	Tomp. (Calakua) [3%]*  - 1063 10.54 10.60 10.71 10.762 10.784 10.91	Peristatic Pum Pump Type: Samples collect    Sold   Y	Sulface	Turbidity (NTU) (10% or 1 NTU)  6  5  6  6  6  6  6  6	DO (mg/f) [10% or 0.1 mg/f) 2.60 3.55 2.60 3.55 1.94 1.86	ORP (mv) [10 mv) [154.7] 147.6 144.7 139.0 135.6
Pi Minu Volume of Vi Di Time 0:00 0:10 0:15 0:30 0:35 the stabilization	Imp Stop Time the of Pumping falar Removed it Well Go Dry?  Water Quality M  Pump Rate (L/min.)  125 125 125 125 125 125 125 125 125 12	7 (N) 7  Noter Type(e)/S  Total Gallone Removed  0.17  0.33  0.50  0.66  0.83  0.99  1.16	Water Level (19 TIC) 7.39 7.96 8.51 9.11 9.46 9.87 10.30 10.51	Tomp. (Calakua) [3%]*  - 1063 10.54 10.60 10.71 10.762 10.784 10.91	Perioditic Pum Pump Type: Samples collect 56 Y pH (0.1 units)* -7,72 7,73 7,75 7,95 7,95	Sulface	mersible Pump (  phod se evecuation  Ach  Turbidity (NTU)  10% or 1 NTUP  10  5  6  5  6  5  6  6  5	00 (mg/f) [10% or 0.1 mg/f] 2.50 2.55 2.60 2.35 2.03 1.94 1.86 accolumn heading.	ORP (mv) [10 mv) [154.7] 147.6 144.7 139.0 135.6
Pine Minu Volume of Vine Time 0:00 0:05 0:10 0:15 0:30 0:35 he stabilization	Imp Stop Time the of Pumping falar Removed it Well Go Dry?  Water Quality M  Pump Rate (L/min.)  125 125 125 125 125 125 125 125 125 12	Total Gallone Removed 0.17 0.33 0.50 0.66 0.83 1.16 1.32 ch field parametrical	Water Level (19 TIC) 7.39 7.96 8.51 9.11 9.46 9.87 10.30 10.51	Tomp. (Cadelum) (3%) - 1063 - 10.54 - 10.60 - 10.71 - 10.73 - 10.784 - 10.91 -  where readings of	Perintetic Pum Pump Type: Samples collect  pH  i0.1 unitsi*  7,72  7,785  7,95  7,95  7,95  7,95  7,95  7,95  7,95  7,95	Sulface	mersible Pump (  phod se evecuation  Ach  Turbidity (NTU)  10% or 1 NTUP  10  5  6  5  6  5  6  6  5  is is issted in each	00 (mg/f) [10% or 0.1 mg/f] 2.50 2.55 2.60 2.35 2.03 1.94 1.86 accolumn heading.	ORP (mv) [10 mv) [154.7] 147.6 144.7 139.0 135.6
Pine Minu Volume of Vine Dia O O O O O O O O O O O O O O O O O O O	Imp Stop Time the of Pumping fater Removed it Well Go Dry? Water Quality IV Pump Rate (L/min.) 125 125 125 125 125 125 125 125 125 125	Total Gallone Removed 0.17 0.33 0.50 0.66 0.83 1.16 1.32 ch field parametrical	Water Level (RTIG) 7.39 7.96 8.51 9.11 9.46 9.87 10.30 10.51  ar (Stree consec	Tomp. (Calsius) [3%]" 1063 10.54 10.60 10.71 10.762 10.784 10.91  subve reactings of the control of th	Perintetic Pum Pump Type: Samples collect  pH  i0.1 unitsi*  7,72  7,785  7,95  7,95  7,95  7,95  7,95  7,95  7,95  7,95	Sulface	mersible Pump (  phod se evecuation  Ach  Turbidity (NTU)  10% or 1 NTUP  10  5  6  5  6  5  6  6  5  is is issted in each	00 (mg/f) [10% or 0.1 mg/f] 2.50 2.55 2.60 2.35 2.03 1.94 1.86 accolumn heading.	ORP (mv) [10 mv) [154.7] 147.6 144.7 139.0 135.6
Pine Minu Volume of Vine Time 0:00 0:15 0:15 0:30 0:35 he stabilization	Imp Stop Time the of Pumping fatar Removed it Well Go Dry? Water Quality IV Pump Rate (L/min.) 125 125 125 125 125 125 125 125 125 125	Total Gallone Removed 0.17 0.33 0.50 0.66 0.83 1.16 1.32 ch field parametrical	Water Level (RTIG) 7.39 7.96 8.51 9.11 9.46 9.87 10.30 10.51  ar (Stree consec	Tomp. (Calsius) [3%]" 1063 10.54 10.60 10.71 10.762 10.784 10.91  subve reactings of the control of th	Perintetic Pum Pump Type: Samples collect  pH  i0.1 unitsi*  7,72  7,785  7,95  7,95  7,95  7,95  7,95  7,95  7,95  7,95	Sulface	mersible Pump (  phod se evecuation  Ach  Turbidity (NTU)  10% or 1 NTUP  10  5  6  5  6  5  6  6  5  is is issted in each	00 (mg/f) [10% or 0.1 mg/f] 2.50 2.55 2.60 2.35 2.03 1.94 1.86 accolumn heading.	ORP (mv) [10 mv) [154.7] 147.6 144.7 139.0 135.6

Well No\bC-Y	Site/GMA 'Name	CMA3	GE	PHOFIELD	
	Sampling Personnel	O. 1-DAUTI			
	Date	5/1/08			
	Weather	3000 50°			
FI   INFORMATION - See Dage 1		<b>,</b>	•		

WELL INFORMATION - See Page	1	ì
-----------------------------	---	---

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TiC)	Temp. (Cetalus) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*		DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) (10 mV)*
10:40	125	1-49	10.66	10,94	8.03	0,245	5	1.75	131.8
10:45	125	1-65	10.50	11.04	7.99	0.244	5	1,69	134.2
10:50	125	1.82		11.05	7.97	0.244	5	1.66	136.5
10:55	Sam	PLE							
									f
									<u> </u>
					•		,		***
									<del></del>
									•
•						<del>-</del>			
	<del></del>						·	****	
							I		- 1

·										
* The stabilizati	on criteria for as	oh fleid namm	ator (thron an	and the sand		2 4 5	. !-4!-> !- !			
* The stabilization OBSERVATION				nsecutive readii	ags collected at	3- to 5-minute	intervais) is i	isted in each co	iumn neading.	_
	······		· · · · · · · · · · · · · · · · · · ·							
<del>~</del>		<del> </del>		<del></del>						***************************************
<del></del>								W. W		

	Well No	. <u>3913</u>	-R		_ s	Site/GMA Name	GMA	3, GE	Pittsfield	)
	Key No.				_ Samp	oling Personnel				***************************************
			n)		_	Date			(C) 12 C(1 ) >	
	Well He	adspace (ppn	1)		-	Weather	100	3405	Overcos	<del></del>
	WELL INFOR	MATION						Sample Time	• 143D	
		e Point Market	1? Y N					Sample II	39B-8	7
	Height of	Reference Poi	nt <u>~ a" _</u>		BGS			Duplicate II	)	
		Well Diamet			AND O			MS/MSE Split Sample IE		
		en Interval Dep		Meas. From				····		
	W	ater Table Dep Well Dep	7.3	Meas. From D Meas. From		<del>-</del>	Required	Analytica	al Parameters:	Collected
	L ength	of Water Colum		-		_	( <b>X</b> )		Standard List)	( × )
	•	of Water in W	7 5 1				( )	•	Expanded List)	( )
	Intake Depth	of Pump/Tubir		Meas. From	TIL	····	( <b>X</b> )	S	SVOCs	( <b>X</b> )
							( )		(Unfiltered)	( )
		nt Identification					( )		s (Filtered)	( )
	· ·	ner (PVC) Casi Duter (Protectiv					( )	=	anics (Unfiltered) ganics (Filtered)	( )
	· ·	Ground Surface					( )		nide (Unfiltered)	( )
	<del>-</del> ,	<u></u>					( )	Total Cya	inide (Filtered)	( )
	Redevelop?	Y (N)					( )	•	nide (Filtered)	( )
							( )		Os/PCDFs	( )
							( ) ( <b>½</b> )		es/Herbicides Attenuation	( )
	EVACUATION	INFORMATIO	N				( )		(Specify)	( <b>X</b> ')
	F	ump Start Time	<u> 1322                                   </u>	<u>.</u>						
		ump Stop Time		<b></b>		Evacuation Me	`		Pump ( )	
		ites of Pumping		[[		Peristaltic Pum	/ /	bmersible Pump	( ) Other/Sp こ <b>と</b>	ecify ( )
•		vater Removed id Well Go Dry'	2.6gal			Pump Type:		ethod as evacuatio		fu)
	Time	Water Quality Pump Rate	Meter Type(s) / S  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/l]*	[10 mV]*
	13.75		0.08	\$5.48	8:23			31		
133D	1341	150	0.21	5,66	8,27	7.17	1,259	18	3.01	-92,1
	1335	100	0.34	5.68	8.38	7,22	1.230	13	1,77	-84.8
	1340	100	0.48	5.68	8,49	7,17	1.158	9	2.02	-7a.7
	1345	100	0.61	5.68	8,52	7,13	1.698	පි	2,82	-63.4
	135D	100	0.74	6.68	8,50	7,17	1.055	<b>구</b>	3,37	-56.7
	1355	100	0.87	5.68	8,72	7 11	1,494	Ŕ	2 1/2	- 73.7
	1400	100	1.00	3 4 3	0 11	7.110	1.339	7	2.82	-70,5
			<u> </u>	or (three correspo	this medians a		استنسا	s) is listed in each		TU.5
			METHOD DEVI		ulive readings o	Ollected at 3- to t	orinii lute ii itei va	s) is iisteu iii eacii	column neading.	
					or ric	ar *133	SX HOO	ر در ده	KI	
	Timer 1	17.55	3116/11	111111111111111111111111111111111111111	3					
			,							
	SAMPLE DEST									
<b>b.</b> .	Laboratory:							1	٠/٠	つ
ý	Delivered Via: Airbill #:					Field Sampling (	Coordinator:	1 Lun	,	
	Alf Dill #.				•	. Sundumbung			<i>y</i>	
								0/11		

Well No. 398-R	Site/GMA Name	GMA3 GE PIHSREID ,
	Sampling Personnel	KIC
	Date	4/30/08
	Weather	overrioust, low you

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]*
1405	100	1.14	15.66	8,76	7,19	1.163	5	3.41	-56.8
1410	100	1.27	15.67	8.63	7,18	1.083	5	3.58	- 5d.
1415	100	1.40	15.68	8,49	7,17	1.034	3	3.62	-47.0
1420	100	1.53	15.68	8.45	7.16	1.007	4.00	3.61	-43.9
1425	100	1.67	15,68	8.30	7.15	.985	4	3.67	- 40.5
1428	100	1.80	15168	8.31	7.15	.983	.3	3.67	- 39, 2
1430		35	ample	00	1436				3 112
,					7-7-36				
								<del></del>	
	<del></del>	,							
		1							
F -									
				·					
									····
									·····
	····								
								****	·
									***
							,		
				T					

* The stabilization criteria for each field parameter (three co	nsecutive readings collected at 3- to 5-minute interval	s) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS		÷
*DD seems high, no ho	blices in Place thosall	cell or hoiner
<u> </u>		

Well N	o.	39D-1	2_		Site/GMA Nam	· GN	12					
Key N					pling Personne	<del></del>	<u> </u>	+ danti				
-	ckground (pp	n) 🚗			Dat		4/30/08	3 COVIA 1				
Well H	leadspace (ppi	n)			Weathe	er	1,21	Cloudy 10	00			
WELL INFO	RMATION			<del></del>			Sample Tim	111:50				
Referen	ce Point Marke	d? Y N					Sample II	000				
Height o	of Reference Po	int	Meas. From	l			Duplicate II					
	Well Diame					a	MS/MSI					
		oth 56-60		Grown	<u>!</u>		Split Sample II	)				
٧	Vater Table Dep	7000	Meas. From		_							
l ength	Well Dep of Water Colum		Meas. From	<u> 716</u>		Required		al Parameters:	Collected			
-	e of Water in W		gallons			( <b>X</b> )		Standard List)	$\langle \mathcal{K} \rangle$			
	n of Pump/Tubi		Meas. From	TIL		( )	•	Expanded List) SVOCs	( )			
·	•				<del></del>	( )		(Unfiltered)	( )			
Reference Po	int Identification	:				( )		s (Filtered)	( )			
· ·	ner (PVC) Cas	•				( )	Metals/Inorg	anics (Unfiltered)	( )			
•	Outer (Protectiv	, •				( )	Metals/Inor	ganics (Filtered)	( )			
Grade/BGS: (	Ground Surface	1				( )	•	nide (Unfiltered)	( )			
Redevelop?	(Y) N					( )		nide (Filtered)	( )			
	<u> </u>					( )		inide (Filtered) Os/PCDFs	( )			
						( )		es/Herbicides	( )			
						( <b>X</b> )		Attenuation	( • )			
EVACUATION	INFORMATIO	N				( )		(Specify)	(*)			
Minu Volume of V	id Well Go Dry?	85 3.590)	<u>j</u> ovi	Y51		DEOPUME	bmersible Pump (	Other/Spe				
	Pump	Total	Water	Temp.	На	Sp. Cond.	Turbidity	DO	ORP			
Time	Rate	Gallons	Level	(Celsius)		(mS/cm)	(NTU)	(mg/l)	(mV)			
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]*	[10% or 0.1 mg/l]*	[10 mV]*			
13:50	300	0.26	8.30			-	49		•••			
13:55	175	0.49	8,23	9.03	8.51	0.327	5ฉ	15.01	57.3			
14:00	125	0.66	8.31	8,99	8,63	0,317	48	9,30	40.0			
14:05	125	0.82	8.31	9.28	71.63	0.310	44	6.92	32,6			
14.10	125	0.99	8.21	9.26	8.62	0.309	37	5.91	26.0			
14:15	150	1.19	3,33	9.22	8,61	0.309	<u> 2</u> %	5,43	22.9			
14:50	150	1.39	2/33	9.11	8.60	0,309	24	5,11	18.2			
14:25	150	1.58	4,33	8,95	8,60	0.309	16	4,73	15.5			
	n criteria for ea	ch field paramete	r (three consecu	live readings co	ollected at 3- to			column heading.				
ADDEDVATION	The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.											
DOSERVATION		ETHOD DEVIA										
DESERVATION												
DESCRIVATION												

SAMPLE DESTINATION

Laboratory: SSS

Delivered Via: UPS

Airbill #:

Field Sampling Coordinator:

They the

Well No. 390 - R	Site/GMA Name	CMA3
	Sampling Personnel	O DOMUTI
	Date	4/30/08
	Weather	Garan, 40°

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	<b>pH</b> [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]*
14:30	150	1.78	8,23	8.86	8,58	0.309	15	4.61	15.9
14:35	150	1.98	8,23	8.97	8,57	0,309	13	4,24	14.7
14:40	150	2.18	4.33	8,98	8.56		13	4,14	11/1
14:45	150	2.38	4,23	9,03	8.57	0,309	13	3,98	10.3
·									
							- MY-0		
				W					
								***************************************	
				**************************************					<del></del>
						,			
			-						
						-			
									<del></del>

* 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

				************	OWN CHILA IN		アノハメカル	16/GMA	7
Kay	No. 114			5	lampling Perso	nnel GAR/	PTO	102 0000	<u> </u>
PID	Background (p	pm) 0			ror.	Date 5/6/			· · · · · · · · · · · · · · · · · · ·
Well	l Hendepace (p	pm)			Wee		the sunn	V : 65-05	
WELL INF	ORMATION						•	•	<del></del>
Refer	ence Point Meri	ted? (Ÿ)	N			,	•	Time 13:25	
Heigh	t of Reference F	Point0./1	2 Mons. F	From Grown	nd		Sampi		
	Well Diam						Duplicat MS/A		
		sptn 225 12	,	from Groun	<u>./</u>		Sp#t Sampi		<del></del>
	Water Table De	apith <u>4.90°</u> apith <u>239.9</u>	Mons. F	10m 710	-				
Langt	vven De th of Water Colu	mn 235.	7 <u>6'</u> , Maas, F	rom 7/c	<del></del>	Require	d Analy	tical Parameters:	Collec
			4/gallons	•		( <b>+</b> )	V	OCs (Ski. list)	(+
Intake Dep	oth of Pump/Tub	ing 230		rom TIG		( )	, vo	XCa (Exp. list)	( `
				7 73		( )	_	SVOCs	(
	oint Identificatio					( )		CBs (Total)	(
	Inner (PVC) Car					( )		Bs (Dissolved) Inorganics (Total)	(
	f Outer (Protecti					( )		rganics (Dissolved)	(
Grade/BGS:	Ground Surfac	• .				( )		anida (Dissolved)	(
Redevelop?	v (B)					( )		enide (Dissolved)	(
······································	' (6)	•				( )		DDs/PCDFs	(
						( )	Pestici	ides/Herbicides	(
						(ン)	Natur	al Attenuation	(H)
EVACUATION	N INFORMATIO	N				( )	Oth	er (Specify)	(
Volume of \	Hid Well Go Dry?	2.50 y		سد د مردا		octed by same in	Submersible Pump Pump Z nethod as evacuati	ion? (Y) N (spe	
Volume of \	Water Removed lid Well Go Dry?	A Z-SO 9	Serial Numbers	: <u> </u>	Peristatic Pu Pump Type: Samples colle	mp (X) S	Submersible Pump 2  Pump 2  method as evacuati  Yurk 2/0	( ) Other/S	cify)
Volume of \	Water Removed hid Well Go Dry? Water Quality	2.50 y	Serial Numbers	Temp.	Peristatic Pu Pump Type: Samples colle	mp Se 0 / sected by same m	Submersible Pump Pump Z  Method as evacuati Pub Z/0  Turbidity	( ) Other/S	cify)
Volume of \	Water Removed hid Well Go Dry? Water Quality   Pump	Meter Type(s) /	Serial Numbers		Peristaltic Pu Pump Type: Samples colle To MPS	pected by same m	Submersible Pump 2 Pump 2 Method as evacuati Pub 2/0 Turbidity (NTU)	OP Turb	ORP (mV)
Volume of \D  Time	Water Removed id Well Go Dry:  Water Quality    Pump Rate	Meter Type(s) /  Total  Gallone	Serial Numbers Water Level	Temp. (Calcius)	Peristatic Pu Pump Type: Samples colle	mp Se 0 / sected by same m	Turbidity [10% or 1 NTUr	OP Turb	ORP (mV)
Volume of \ D  Time  2:/5- 2:20	Water Removed iid Well Go Dry's Water Quality I Pump Rate (L/min.)	Y N  Meter Type(s) /  Total  Galione  Removed	Sorial Numbers Water Level (ft TIC)	Temp. (Calcius)	Peristaltic Pu Pump Type: Samples colle College  pH  (0.1 units)	pected by same m	Submerable Pump 2 Pump 2 Part 2/0 Turbidity (NTU) [10% or 1 NTU]	OP Turb	ORP (mV)
Volume of V	Water Removed Hid Well Go Dry?  Water Quality    Pump Rate (L/min.)	Z-SO Y N Total Gallons Removed	Serial Numbers  Water Level (ft TIC)  5-08	Temp. (Calcius)	Peristaltic Pu Pump Type: Samples colle Some py pH (0.1 units)	Sp. Cond. (mS/cm) [3%]*	Submerable Pump 2 Pump 2 Nethod as evacuati Public Control Turbidity (NTU) [10% or 1 NTU] 55	() Other/s ion? () N (special of the control of the	ORP [10 mV]
Time  2:/5- 2:25 2:30	Water Removed id Well Go Dry:  Water Quality    Pump Rate (Limin.)  /00 m    /00 m	Z-SO Y N Meter Type(s) / Total Gallone Removed D. 13 D. 26 D. 40	Serial Numbers  Water Level (ft TIC)  5-08  5-20  5-30	Temp. (Celatus) [3%]* ————————————————————————————————————	Peristaltic Pur Pump Type: Samples colle GMPS  pH  [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Submerable Pump 2 nethod as evacuate Yank 2/0  Turbidity (NTU) [10% or 1 NTUP 55 7	() Other/s ion? () N (special of the special of the	ORP (mv) [10 mv] -31-1
Time 2:/5- 2:25 2:30 2:35	Water Removed id Well Go Dry's Water Quality   Pump Rate (L/min.)   /00 m / /0	2.50 y N N N N N N N N N N N N N N N N N N	Serial Numbers  Water Level (RTIC)  5-08  5-20  5-30  5-35  5.39	Temp. (Celeius) [3%]*	Peristaltic Pur Pump Type: Samples colle GMPS  pH  i0.1 units*  6.78  6.88	Sp. Cond. (mS/cm) [3%]*  O. ZZO  O. ZZO	Submerable Pump 2  Hethod as evacuati  Yalk 2/0  Turbidity (NTU) [10% or 1 NTUP  55  /7  7	() Other/s ion? () N (special of the special of the	ORP (mV) [10 mV]
Time  2:/5- 2:25 2:30 2:35 2:40	Water Removed id Well Go Dry's Water Quality   Pump Rate (Limin.)   100 m   10	2.50 y N Ameter Type(s) / Total Galione Removed 0.13 0.26 0.40 0.53 0.66 0.79	Serial Numbers  Water Level (RTIC)  5-08  5-20  5-30  5-35  5.39	Temp. (Celeius) [3%]*	Peristaltic Pur Pump Type: Samples colls GMPS  pH  j0.1 units*  G.78  G.88  G.94	Sp. Cond. (mS/cm) [3%]*  O. ZZO  O. ZZO	Submerable Pump 2  Herbidity  (NTU)  [10% or 1 NTUP  17  7  10  9	() Other/s ion? () N (special of the special of the	ORP (mv) [10 mv] -31-1 - 47-1
Time  2:/5- 2:25 2:25 2:30 2:40 2:45-	Water Removed id Well Go Dry's Water Quality   Pump Rate (L/min.) /00 m /	2.50 y N Ameter Type(s) / Total Gallone Removed 0.13 0.26 0.40 0.53 0.66 0.79 0.92	Serial Numbers  Water Level (RTIC)  5.08  5.20  5.30  5.35  5.39	Temp. (Celeius) [3%]*	Peristaltic Pur Pump Type: Samples collic MPS  pH  j0.1 units*  6.78  6.94  6.97	Sp. Cond. (mS/cm) [3%]*  0.226  0.226  0.231	Submerable Pump 2  Hethod as evacuati  Yalk 2/0  Turbidity (NTU) [10% or 1 NTUP  55  /7  7	() Other/s ion? () N (special points) DO (mg/ll) [10% or 0.1 mg/ll]	ORP (mV) [10 mV]
Time  2:/5- 2:25 2:30 2:35 2:40 2:45- 2:50 2:45- 2:40 2:45- 2:50 2:40	Water Removed id Well Go Dry's Water Quality   Pump Rate (Limin.)   100 m   10	2.50 y N N Y N N N N N N N N N N N N N N N N	Sorial Numbers  Water Level (RTIC)  5-08  5-20  5-30  5-35  5-37  5-40  5-40	Temp. (Celeius) [3%]* -  ]1.54  [1.43 ]1.54  [1.52 ]1.48	Peristaltic Pur Pump Type: Samples colls GMPS  pH  j0.1 units*  6.78  6.78  6.97  7.00  7.00	Sp. Cond. (mS/cm) [3%]"	Submerable Pump 2  Pump 2  sethod as evacuati  Pulp 2  runbidity  (NTU)  [10% or 1 NTUP  55  17  7  10  9  8  9	() Other/s ion? () N (special points) DO (mg/ll) (10% or 0.1 mg/ll)	ORP (mv) [10 mv]
Time  2:/5- 2:25 2:30 2:35 2:40 3:45- 2:40 4:50 4:50 4:50 4:50 4:50 4:50 4:50 4	Water Removed id Well Go Dry's Water Quality   Pump Rate (L/min.)  /00 m /	2.50 y N N Y N N N N N N N N N N N N N N N N	Serial Numbers  Water Level (RTIC)  5-08  5-20  5-30  5-35  5.39  5-40  5-40  cr (three consec	Temp. (Celeius) [3%]* -  ]1.54  [1.43 ]1.54  [1.52 ]1.48	Peristaltic Pur Pump Type: Samples colls GMPS  pH  j0.1 units*  6.78  6.78  6.97  7.00  7.00	Sp. Cond. (mS/cm) [3%]"	Submerable Pump 2  Pump 2  sethod as evacuati  Pulp 2  runbidity  (NTU)  [10% or 1 NTUP  55  17  7  10  9  8  9	() Other/s ion? () N (special points) DO (mg/ll) (10% or 0.1 mg/ll)	ORP (mv) [10 mv]
Time  2:/5- 2:25 2:30 2:35 2:90 2:35 2:90 2:35 2:90 2:45 2:50 2:50 2:50 2:50 2:50 2:50 2:50 2:5	Water Removed id Well Go Dry's Water Quality   Pump Rate (L/min.) /00 m /	2.50 y N N Y N N N N N N N N N N N N N N N N	Serial Numbers  Water Level (ft TIC)  5-08  5-20  5-30  5-35  5-37  5-40  5-40  sr (three consecutions	Temp. (Celatus) [3%]*  J1.54  J1.43  J1.54  J1.52  J1.48  utive readings or	Peristaltic Pur Pump Type: Samples colle is amples collected at 3- to 5 decided at 3-	Sp. Cond. (mS/cm) [3%]"	Submerable Pump 2  Pump 2  sethod as evacuate  Pulp 2/0  Turbidity (NTU) [10% or 1 NTUP  5 5  17  7  10  9  9  9  10 is listed in each	() Other/s ion? () N (special points) DO (mg/ll) (10% or 0.1 mg/ll)	ORP (mv) [10 mv]
Time  2:/5- 2:25 2:30 2:35 2:90 2:35 2:90 2:35 2:90 Restabilization BERVATIONS	Water Removed id Well Go Dry's Water Quality   Pump Rate (L/min.) /00 m /	2.50 y N N Y N N N N N N N N N N N N N N N N	Serial Numbers  Water Level (ft TIC)  5-08  5-20  5-30  5-35  5-37  5-40  5-40  sr (three consecutions	Temp. (Celatus) [3%]*  J1.54  J1.43  J1.54  J1.52  J1.48  utive readings or	Peristaltic Pur Pump Type: Samples colle is amples collected at 3- to 5 decided at 3-	Sp. Cond. (mS/cm) [3%]"	Submerable Pump 2  Pump 2  sethod as evacuate  Pulp 2/0  Turbidity (NTU) [10% or 1 NTUP  5 5  17  7  10  9  9  9  10 is listed in each	() Other/s ion? () N (special points) DO (mg/ll) (10% or 0.1 mg/ll)	ORP (mv) [10 mv]
Time  2:/5- 2:25 2:30 2:35 2:90 2:35 2:90 2:35 2:90 Restabilization BERVATIONS	Water Removed id Well Go Dry's Water Quality   Pump Rate (Limin.)  /00 m /	2.50 y N N Y N N N N N N N N N N N N N N N N	Serial Numbers  Water Level (ft TIC)  5-08  5-20  5-30  5-35  5-37  5-40  5-40  sr (three consecutions	Temp. (Celatus) [3%]*  J1.54  J1.43  J1.54  J1.52  J1.48  utive readings or	Peristaltic Pur Pump Type: Samples colle is amples collected at 3- to 5 decided at 3-	Sp. Cond. (mS/cm) [3%]"	Submerable Pump 2  Pump 2  sethod as evacuate  Pulp 2/0  Turbidity (NTU) [10% or 1 NTUP  5 5  17  7  10  9  9  9  10 is listed in each	() Other/s ion? () N (special points) DO (mg/ll) (10% or 0.1 mg/ll)	ORP (mv) [10 mv]
Time  2:/5- 2:25 2:30 2:35 2:90 2:35 2:90 2:35 2:90 Restabilization BERVATIONS	Water Removed id Well Go Dry's Water Quality   Pump Rate (Limin.)  /00 m /	2.50 y N N Y N N N N N N N N N N N N N N N N	Serial Numbers  Water Level (ft TIC)  5-08  5-20  5-30  5-35  5-37  5-40  5-40  sr (three consecutions	Temp. (Celeius) [3%]* -  ]1.54  [1.43 ]1.54  [1.52 ]1.48	Peristaltic Pur Pump Type: Samples colle is amples collected at 3- to 5 decided at 3-	Sp. Cond. (mS/cm) [3%]"	Submerable Pump 2  Pump 2  sethod as evacuate  Pulp 2/0  Turbidity (NTU) [10% or 1 NTUP  5 5  17  7  10  9  9  9  10 is listed in each	() Other/s ion? () N (special points) DO (mg/ll) (10% or 0.1 mg/ll)	ORP (mv) [10 mv]
Time  2:15 2:25 2:30 2:35 2:40 2:35 2:40 2:35 2:40 PLE DESTINATIONS	Water Removed id Well Go Dry's Water Quality   Pump Rate (Liroin.)  100 m   10	2.50 y N N Y N N N N N N N N N N N N N N N N	Serial Numbers  Water Level (ft TIC)  5-08  5-20  5-30  5-35  5-37  5-40  5-40  sr (three consecutions	Temp. (Celatus) [3%]*  J1.54  J1.43  J1.54  J1.52  J1.48  utive readings or	Peristaltic Pur Pump Type: Samples colle is amples collected at 3- to 5 decided at 3-	Sp. Cond. (mS/cm) [3%]"	Submerable Pump 2  Pump 2  sethod as evacuate  Pulp 2/0  Turbidity (NTU) [10% or 1 NTUP  5 5  17  7  10  9  9  9  10 is listed in each	() Other/s ion? () N (special points) DO (mg/ll) (10% or 0.1 mg/ll)	ORP (mv) [10 mv]
Time  2:15- 2:25 2:30 2:35 2:40 2:45- 2:50 2:40 2:45- 2:50 4:45- 4	Water Removed id Well Go Dry's Water Quality   Pump Rate (Liroin.)  100 m   10	2.50 y N N Y N N N N N N N N N N N N N N N N	Serial Numbers  Water Level (ft TIC)  5-08  5-20  5-30  5-35  5-37  5-40  5-40  sr (three consecutions	Temp. (Celatus) [3%]* ]/.54 //.43 //.54 //.52 //.48 utive readings or	Peristaltic Pur Pump Type: Samples colle is amples collected at 3- to 5 decided at 3-	Sp. Cond. (mS/cm) [3%]"	Submerable Pump 2  Pump 2  sethod as evacuate  Pulp 2/0  Turbidity (NTU) [10% or 1 NTUP  5 5  17  7  10  9  9  9  10 is listed in each	() Other/s ion? () N (special points) DO (mg/ll) (10% or 0.1 mg/ll)	ORP (mv) [10 mv] -31.1 -47.1 -53.4 -54.2 =61.4

Well No.	39E	Site/GMA Name	GE Pitsfild/GMA 3
		Sampling Personnel	GAR/RAB
			5/6/08
		Weather	Mostly sunny, 70°F

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius)	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/[]*	ORP (mV) [10 mV]*
12:55	100ml	1.19	5.40	11.57	7.03	0.245	10	0.56	-64.4
13:00	100ml	1.32	5.40	11.63	7.04	0.249	8	0.54	-66.3
سی ماحق	rooml	1.45	5.35	11.52	7.04	0.250	11	0.52	~67. Z
13:10	100ml	1.59	5.36	11.56	7.04	0.254	10	0.52	-66.5
13:15-	100ml	1.72		1	7.05	0.257	_	0.47	-61.6
13:20	100ml	1.85	T	11.64	7.04	0.260		0.48	-60.9
								<del> </del>	
									*****
			<b>y</b>						
<del></del>				**					41.
									· · · · · · · · · · · · · · · · · · ·
•									
							· .		

the parameter (three consecutive readings collected at 3- to 3-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS

	H No.	43 A			<b></b>	1	140 02	5 · · · O ·	`
	y No.		2x-37		Sile/GillA N ampling Person		743,66	ALISKel	<u>U</u>
	Background (	(ppm)							
VVe	il Headepace (	ppm)			. West	ther 4011	130/68 5 (Clox	4, Snoc	٥.
WELL IN	FORMATION						Sample 7	<u>42</u>	A 1050
	rence Point Me	-	N ·	A.	_ ~	r	Sampl		H 1030
Heigi	ht of Reference Well Disc		Meas. Fi	rom By	Grave	, 	Duplicate		
s		Depth 45-6	57) Name 5	om TtC	Guar De		MSA		
	Water Table D	,			COVACC	•	Split Sample	ID	
•	Well D		O Mees, Fr	om TIC		Require	I . <u>Analy</u> i	ical Parameters:	Collected
	jth of Water Co ime of Water in					$(\times)$		Cs (Std. list)	( X)
		bing v47	Mons. Fro	m TIC		( )	, vo	Ca (Exp. list)	( ^)
				···· ———	<del></del>	( )	pe	SVOCa CBs (Total)	( )
	Point Identificati					( )		is (Dissolved)	( )
	f Inner (PVC) Ci of Outer (Protec					( )		norganics (Total)	( )
	Ground Surfa					( )		ganics (Dissolved)	( )
						( )		mide (Dissolved) mide (Dissolved)	( )
Redevelop?	YW	•				( )		DDs/PCDFs	( )
*						(	Pestici	des/Herbicides	( )
						( X-)		al Attenuation	( X)
EVACUATIO	N INFORMATI	~ ~ ~ ~				,	Can	er (Specify)	( )
	Pump Start Tin Pump Stop Tin								
	nutes of Pumpir			•	Evacuation N			Pump ( )	
Volume of	Water Remove		llons		Peristaltic Pur Pump Type:	mp(X) s	ubmersible Pump	( ) Other/S	ipecify ( )
	Did Well Go Dry	n y (N)		•		cted by same m	ethod as evacuati	on? Y N (spe	erika)
	Water Quality	Meter Type(s) /	Serial Numbera:	YSI S	66MP	5, (#2	) alc		Hturk
Time	Pump Rate	Total Gallons	Water	Temp.	pH	Sp. Cond.	Turbidity	DO	ORP
····	(L/min.)	Removed	(ft TIC)	(Coleium)	(0,1 units)*	(mS/cm) [3%]*	(NTU) [10% or 1 NTU]	(mg/l)	(mV)
0933	200	0.69	9.32		~	-	31	[10% or 0.1 mg/f]	[10 mV]*
093 <b>8</b>	150	0.89	1192	8.79	7,95	0.663		0	
0943	150.	1.09	13.14	8.90			35	2,45	-134,9
0948	150	1.28			785	0,720	16	1.33	-135,9
0953		1.48		8,90	7,50	0.816	15	1,01	- 133.4
	160	1	14,49	9,11	7,48	0.848	14	0.89	1-119.0
0958	100	1.61	14.99	9.00	7.43	0.874	PH 17	0,79	-112,3
003	100	1.74	15.98	9.05	7.38	0.901	15	0.65	-107.9
008	100	1.88	16.52	9.14	7.36	0 920	20	0 100	
he stabilizatio	n criteria for eac	ch field paramete	r (three consecu	tive readings co	fected at 3- to 5	minute intervals	) is listed in each		-104.1
SERVATION	S/SAMPLING A	METHOD DEVIA	TIONS				y no moneta at compatit	comminguity.	
·····									
<b>P</b> LE DESTIN	MOITAN								
MPLE DESTIN	565								
.aboratory:i									<u> </u>
aboratory:	565			Fle	oki Sampling C	oordinator:		Zin	)

C:WORKSEStreendownstates 4180 Minches and D-

Well No.	43A	Site/GMA Name	GMA 3 / GE Pitts Reld
		Sampling Personnel	K/C
		Date	4/30/06
		Weather	Particil Clouds, 50%

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]*
1013	<b>3</b> 100	2.01	17.04	9.34	7.33	0.936	19	0.59	-99.6
1018	001	2.14	17.38	9.38	7.31	0,954	19	0.53	-96.6
1023	100	2.27	13.86	9.22	7,29	0.978	16	0.54	-9411
1028	100	2.40	18,44	9,07	7.26	0.999	14	0.52	-91.4
1033	100	2.54	18.64	8,99	7.26	1,018	13	0,48	-37.4
1038	100	2.67	18.80	8.95	7,22	1,033	12	0.51	-86,7
1043	100	2.80	19.14	8,90	7.22	1,051		0.48	- 85,4
1048	100	2.93	19,29	8,90	7,20	1,071	10	0.47	- 84,0
1053	100	3.07	19.37	3.86	7,20	1.081	10	0.47	-82.5
1056		$\Rightarrow$ S	ample	001	D570.				
**************************************									
									· · · · · · · · · · · · · · · · · · ·
· · · · · ·									
·									
								***************************************	
									· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·								
				1					

* The stabilization crite	eria for each field para	meter (three consecutive rea	adings collec	ted at 3- to 5-minute inte	rvals) is listed	in each column	heading.	
OBSERVATIONS/SAI	MPLING METHOD DE	VIATIONS						
X Hard to	regulate	ATT temp.	ALV	temp dro	ט לשמם	drawhic	hi d	WIN
Diraha	. Stow-Y	words cell	Was	Sheilded	Brom	He 3	SUM	7
7 3 3						, , , , , , , , , , , , ,		

. Well I	ta. 431	3			SHOWSHA Marro GE Pitts fill / GMA 3						
	Key No. FX-37 PID Background (ppm)				npling Personn	4 <u>0.7</u>	O. ADDATI				
					Dat	<u> </u>	4/30/04				
Well	Headepace (pp	m)		•	Weath	. Dring	4, 40°				
WELL INFO	RMATION						Sample Tirr	+43B	10:35		
Refero	nce Point Merks	nd? Y N				f	Sample !				
Height	of Reference Po	7.11	Meas. From	m	<del></del>		Duplicate i		MD6 #1		
Ser	Well Diame on Interval De		(2) Mass. From	m <u>-865</u> 6	mund		MS/MS Split Sample (				
	Nator Table De	4	Meas. From				Opa, Garipas (				
	Well Dep	1=1	Meas, From	n TIC		Required		al Paremeters:	Collected		
	t of Water Colur on of Water in W	nn <u>/ 7.01'</u> M	. Ilmo			(X)		Cs (Std. list)	(*)		
	th of Pump/Tubi	h 1	Meas, From	n TIL		( )		a (Exp. list) SVOCs	( )		
	·					( )	PC	Ba (Total)	( )		
	oint Identification	_				( )		(Dissolved)	( )		
•	nner (PVC) Cas Outer (Protecth	•				( )		organics (Total) anics (Dissolved)	( )		
	Ground Surface	On the				( )	_	ride (Dissolved)	( )		
						( )	PAC Cym	ride (Dissolved)	( )		
Redevelop?	Y (N)	¥s .				( )		Ds/PCDFs	( )		
						(X)		eu/Herbicides Attenuation	( ) ( <b>)</b>		
				•		( )		r (Specify)	( )		
Min Volume of	Pump Stop Time utes of Pumping Water Removed	95	- 5.75 yullov	ני	Evacuation Me Peristatic Pun Pump Type:		() Bladder Ibmersible Pump Pump 2		ecify ( )		
	id Well Go Dry's  Water Quality	Y CiP	Serial Numbers:	Y51-5	•	-	ethod as evacuatio	TURBINI	••		
	Water Quality	Meter Type(e) / 5	Seriei Numbers: Water	<i>Y51-5</i>	•	-		<b>O</b> 17	••		
Time	Water Quality Pump Rate	Meter Type(e) / 5  Total  Gailone	Water Level	Temp. (Celeius)	5 <sup>-6</sup> M Ps	Sp. Cond.	L Z/00P	DO (mg/l)	ORP (mV)		
Time	Water Quality	Meter Type(e) / 5	Water Level (ft TIC)	Temp.	56 MPS	Ha.	Turbidity (NTU) [10% or 1 NTU]	DO (mg/l)	nutu-		
Time 9 25	Pump Rate (Linsin.)	Meter Type(s) / S  Total Gailone Removed	Water Level (fit TIC) 5.66	Temp. (Celeiun) [3%]*	pH [0.1 unital)	Sp. Cond. (mS/cm)	Turbidity (NTU) [10% or 1 NTUP	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*		
Time 9 25 9:35	Pump Rate (L/min.)	Meter Type(e) / S  Total Gallone Removed   0.46	Water Level (ft TIC) 5.66	Temp. (Celetus) [3%]*	pH [0.1 units]*	# 0. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTUP	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*		
7ime 9 25 9:35 9:40	Pump Rate (Limin.)	Meter Type(s)/S  Total Gallone Removed  0.46	Water Level (# TIC) 5.66 7.09	Temp. (Celeium) [3%]* 	5-6 MPs pH i0.1 unitsip ————————————————————————————————————	Ha., Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTUP	10% or 0.1 mg/f <sup>2</sup> -26.65	ORP (mV) [10 mV)*		
7 25 9 35 9 40 9 45	Pump Rate (L/min.)  175 150	Meter Type(e)/S  Total Gallone Removed  O.46  O.66  O.86	Water Level (NTC) 5.66 7.09 7.15	Temp. (Cotatus) [3%]*  8,66 8,44	5-6 MPs pH j0.1 unitap ————————————————————————————————————	#a.  Sp. Cond.  (mS/cm)  [3%]*  1.144  1.153	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* - - 	ORP (may) [10 myp  - \$2,4  - 78,9		
7:35 9:35 9:40 9:45 9:50	Pump Rate (L/min.)  \75 \50 \50	Meter Type(e)/S  Total Galtone Removed  0.46 0.66 1.06	Water Level (# TIC) 5.66 7.09	Temp. (Cotatus) [3%]*   8.66  8.44  8.58  8.72	5-6 MPs pH i0.1 unitsip ————————————————————————————————————	1.144 1.153	Turbidity (NTU) [10% or 1 NTU]	26.65 12.53 9.78	ORP (mV) [10 mV]*  		
9 25 9:35 9:40 9:45 9:50	Pump Rate (Linsin.)  \75 \50 \50 \750	Y (B)  Meter Type(e)/S  Total Gailone Removed  0.46 0.66 0.86 /-06	Water Level (NTC) 5.66 7.09 7.15	Temp. (Cotatus) [3%]*   3.66  3.44  3.53  3.72	5-6 MPs pH j0.1 unitap ————————————————————————————————————	1.144 1.153 1.155 1.158	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* - - 	ORP (may) [10 myp  - \$2,4  - 78,9		
7 25 9:35 9:40 9:45 9:50	Pump Rate (L/min.)  \75 \50 \50	Y (ii)  Meter Type(e)/S  Total Gallone Removed  0.46 0.66 0.86 /-06 /-29 /-49	Water Level (№ TIC) 5.66 7.09 7.15 \$7.30 7.34	Temp. (Cotatus) [3%]*   8.66  8.44  8.58  8.72	pH j0.1 unitap - 6,96 7.15 7.23 7.33 7.33	1.144 1.153	Turbidity (NTU) [10% or 1 NTU]	26.65 12.53 9.78	ORP (mV) [10 mV]*  		
9:35 9:35 9:40 9:45 9:50 9:55 10:00	Pump Rate (L/min.)  \75 \50 \50 \750	Y (B)	Water Level (NTIC) 5.66 7.09 7.15 \$7.30 7.34 7.31 7.36	Temp. (Cotelum) [3%]*  8.66 8.44 8.58 8.73 8.73 8.85	jo.1 unitap jo.1 unitap 	1.144 1.153 1.155 1.156 1.158	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 	0RP (mv) [10 mv]* 		
71me 9 25 9:35 9:40 9:45 9:50 9:55 10:00 10:05 The stabilization	Pump Rate (L/min.)  175 150 150 150 175 150 175 150 175 175 175 175 175 175 175 175 175 175	Meter Type(e)/S  Total Gailone Removed  0.46 0.66 /.06 /.29 /.49 /.68 ch field parameter	Water Level (№ TIC) 5.66 7.09 7.15 \$7.30 7.24 7.31 7.36 er (three consecu	Temp. (Cotelum) [3%]*  8.66 8.44 8.58 8.73 8.73 8.85	jo.1 unitap jo.1 unitap 	1.144 1.153 1.155 1.156 1.158	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 	ORP (mV) [10 mV]*  		
71me 9 25 9:35 9:40 9:45 9:50 9:55 10:00 10:05 The stabilization	Pump Rate (L/min.)  175 150 150 150 175 150 175 150 175 175 175 175 175 175 175 175 175 175	Y (B)	Water Level (№ TIC) 5.66 7.09 7.15 \$7.30 7.24 7.31 7.36 er (three consecu	Temp. (Cotelum) [3%]*  8.66 8.44 8.58 8.73 8.73 8.85	jo.1 unitap jo.1 unitap 	1.144 1.153 1.155 1.156 1.158	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 	ORP (mV) [10 mV]*  		
71me 9 25 9:35 9:40 9:45 9:50 9:55 10:00 10:05 The stabilization	Pump Rate (L/min.)  175 150 150 150 175 150 175 150 175 175 175 175 175 175 175 175 175 175	Meter Type(e)/S  Total Gailone Removed  0.46 0.66 /.06 /.29 /.49 /.68 ch field parameter	Water Level (№ TIC) 5.66 7.09 7.15 \$7.30 7.24 7.31 7.36 er (three consecu	Temp. (Cotelum) [3%]*  8.66 8.44 8.58 8.73 8.73 8.85	jo.1 unitap jo.1 unitap 	1.144 1.153 1.155 1.156 1.158	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 	ORP (mV) [10 mV]*  		
71me 9 25 9:35 9:40 9:45 9:50 9:55 10:00 10:05 The stabilization	Pump Rate (L/min.)  175 150 150 150 175 150 175 150 175 175 175 175 175 175 175 175 175 175	Meter Type(e)/S  Total Gailone Removed  0.46 0.66 /.06 /.29 /.49 /.68 ch field parameter	Water Level (# TIC)  5.66  7.09  7.15  \$7.30  7.34  7.31  7.36  ar (three consecutions	Temp. (Cotelum) [3%]*  8.66 8.44 8.58 8.73 8.73 8.85	jo.1 unitap jo.1 unitap 	1.144 1.153 1.155 1.156 1.158	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 	ORP (mV) [10 mV]*  		
7 25 9:35 9:40 9:45 9:50 9:55 \0:00 \0:05 The stabilization	Pump Rate (L/min.)  175 150 150 150 150 150 150 150 150 150 15	Meter Type(e)/S  Total Gailone Removed  0.46 0.66 /.06 /.29 /.49 /.68 ch field parameter	Water Level (# TIC)  5.66  7.09  7.15  \$7.30  7.34  7.31  7.36  ar (three consecutions	Temp. (Cotelum) [3%]*  8.66 8.44 8.58 8.73 8.73 8.85	jo.1 unitap jo.1 unitap 	1.144 1.153 1.155 1.156 1.158	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 	ORP (mV) [10 mV]*  		
7 25 9:35 9:40 9:45 9:50 9:55 \0:00 \0:05 The stabilization BRERVATION	Pump Rate (L/min.)  175 150 150 150 150 150 150 Rotherin for each stylength of the stylengt	Meter Type(e)/S  Total Gailone Removed  0.46 0.66 /.06 /.29 /.49 /.68 ch field parameter	Water Level (# TIC)  5.66  7.09  7.15  \$7.30  7.34  7.31  7.36  ar (three consecutions	Temp. (Cotelum) [3%]*  8.66 8.44 8.58 8.73 8.73 8.85	jo.1 unitap jo.1 unitap 	1.144 1.153 1.155 1.156 1.158	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 	ORP (mV) [10 mV]*  		
7 25 9:35 9:40 9:45 9:50 9:55 \0:00 \0:05 The stabilization BSERVATION	Pump Rate (L/min.)  175 150 150 150 150 150 150 ISSAMPLING I	Meter Type(e)/S  Total Gailone Removed  0.46 0.66 /.06 /.29 /.49 /.68 ch field parameter	Water Level (# TIC)  5.66  7.09  7.15  \$7.30  7.34  7.31  7.36  ar (three consecutions	Temp. (Cotelum) [3%]*  8.66 8.44 8.58 8.73 8.73 8.85	jo.1 unitap jo.1 unitap 	Hay  (mS/cm)  (3%)*  1.144  1.153  1.155  1.156  1.155  1.165 minute interval	Turbidity (NTU) (10% or 1 NTUP  O  R  T  G  J  U  a) is listed in each	00 (mg/l) [10% or 0.1 mg/l]* 	ORP (mV) [10 mV]*  		
7 25 9:35 9:40 9:45 9:50 9:55 \0:00 \0:05 The stabilization BRERVATION	Pump Rate (L/min.)  175 150 150 150 150 150 150 150 150 150 15	Meter Type(e)/S  Total Gailone Removed  0.46 0.66 /.06 /.29 /.49 /.68 ch field parameter	Water Level (# TIC)  5.66  7.09  7.15  \$7.30  7.34  7.31  7.36  ar (three consecutions	Temp. (Cotatus) (3%)*   8.66  8.44  8.58  8.72  8.55  8.69  8.79  where readings of	jo.1 unitap jo.1 unitap 	Hay  (mS/cm)  (3%)*  1.144  1.153  1.155  1.156  1.155  1.165 minute interval	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 	ORP (mV) [10 mV]*  		

Well No. <u>GMA3 43B</u>	Site/GMA Name	GE Pittsfill / SMA3
	Sampling Personnel	D. Adanti
•	Date	4/30/08
	Weather	Junny, 400

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]*
10:10	175	1.92	7.34	8,82	7.31	1.168	5	6.08	-84.5
10:15	150	2.11	רב.ד	9.01	7.34	1,170	4	5,45	-89.2
10:30	150	2.31	7.23	8.37	7.35	1,173	4	5.06	-90.
10:25	175	2.54	7.32	8.68	7.35	1,175	4	4.95	-93.5
10:30	150	2.74	7.26	8.64	7.34	1,176	4	4.90	- 91.9
					-				
	:				<u> </u>				
			. (						nran
		,							
						<del> </del>			
									· · · · · · · · · · · · · · · · · · ·
							,		
						T			

* The stabilization criteria for each field parameter (three consecutive readings collected	nt 3- to 5-minute inter	vals) is listed in eac	h column heading.	
OBSERVATIONS/SAMPLING METHOD DEVIATIONS			+	
$\gamma \gamma \gamma$		• '	$\sim$	

E\_Pittefield\_General\_Conf.Sectial\Reports and PresentationalFSP\_QAPP UpdateREV04\Attachment D-26\diseampform\_DRAFFV1.xls

Well No	o. <u>51-14</u>				Site/GMA Nam	· GMA3	- GIE I	Pittsfield	
Key No	o. <u> </u>			San	pling Personne		DAZ		
PID Ba	ickground (ppn	n) <u>//A</u>	_		Dat	· 5/2/08			
Well H	leadspace (ppn	n) <u>N4/01</u>		<del></del>	Weathe	robidu	1, wet,	501s	
WELL INFO	RMATION	•					Sample Time	1055	
Referen	nce Point Market	1? Y N					Sample t		
Height o	of Reference Poi	int LS	Meas. From	n			Duplicate ID	· <del></del>	
	Well Diamet	er <del>                                 </del>					MS/MSE		
Scre	en Interval Dep	th 5-15	Meas. From	n IFE	BLS		Split Sample ID		
V	Vater Table Dep	th 9.87	Meas. From	n TFC					
	Well Dep	th 14.46	Meas. From			Required	Analytica	I Parameters:	Collected
Length	of Water Colum	n 4.59				(X)	VOCs (S	Standard List)	(سیس)
Volum	e of Water in W	ell 0 , ( <b>44</b>	gailin	77/		( )	VOCs (E	xpanded List)	( )
Intake Dept	h of Pump/Tubir	19 ~/3	Meas. From	n TIC		( )	S	VOCs	( )
						( )	PCBs	(Unfiltered)	( )
	int Identification					( )	PCBs	(Filtered)	( )
•	nner (PVC) Casi	_				( )	Metals/Inorg	anics (Unfiltered)	( )
TOC: Top of	Outer (Protectiv	e) Casing				( )	Metals/Inor	ganics (Filtered)	( )
Grade/BGS:	Ground Surface					( )	Total Cyar	nide (Unfiltered)	( )
	^		🤊			( )	Total Cya	nide (Filtered)	( )
Redevelop?	(Y) N -	re-insta	all !			( )	PAC Cya	nide (Filtered)	( )
		no cur	ploox.			( )	PCDI	Ds/PCDFs	( ) ·
		MO CUM Broken PV	casing,			( )	Pesticide	s/Herbicides	( )
		•				( )	Natural	Attenuation	( )
EVACUATION	NINFORMATIO	N 22				( )	Other	(Specify)	( )
	Pump Start Time		2						
í	Pump Stop Time	16/1:0	0		Evacuation M	ethod: Bailer	( ) Bladder i	⊃ump ( <b>X</b> )	
	utes of Pumping		F 11		Peristattic Pur		ubmersible Pump (		ecify ( )
	Water Removed		3.07.110	N 2	Pump Type:			stem on	<u> </u>
	Did Well Go Dry? Water Quality i	Meter Type(s) / S	Serial Numbers:	YSI 53			ethod as evacuátio	n? (Y) N (speci	-,
	Pump	Total	Water	Temp.	pH	Sp. Cond.	Turbidity	DO	ORP
Time	Rate	Gallons	Level	(Celsius)		(mS/cm)	(NTU)	(mg/l)	(mV)
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]*	[10% or 0.1 mg/l]*	[10 mV]*
1002	450	0.83	9,92				197		
1007	150	1.03					39		
1012	175	1.26	997	8.42	6.43	0.469	20	9,27	63.2
1017		1.49	9.91	8.39	6.42	0.466	111	8.77	607
1022	175	1.72	9.92	8.39	6.41	0,463	5	8.43	61.3
1027	150	1.92	9.94	8.36	6.39	0.461	3	7.65	61.5
1032	150	2.12		9.31	6.39	0,461	2	7.22	62.1
1037	150	2.31	4.90	8.24	6.39	0.461		7-05	62.0
				Do) Ma	collected at 3- to	5-minute interve worked Due	als) is listed in each Y fo oir in	column heading. the water live	
	NS/SAMPLING	METHOD DEVO							

				GROUNDWA	IER SAMPLI	<u> 10 LOG</u>			
Well No.	51	1-14			its/GMA 'Name ilng Personnel	GMA DAZ/	1-3 KLC 4 , 45° W		
					Date Weather	5/2/0	45° W	nd	
VELL INFORM	AATION - See I	Page 1							
Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TiC)	Temp. (Cetalus) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU)	DO (mg/i) ' [10% or 0.1 mg/i]*	ORP (mV) [10 mV]*
1042	1	2.51	9.49	828	6.39	0.461		6.51	60.9
1047		271	9.89	8.33	6.39	0.462	ı	6.46	619
052		291	9.91	8.36	6.39	0.462	0	6.5100	60.5
	ng panggapa		the same a responsible to the same and the same as the		Sand and a second				
							Mary and the state of the state	>	
, , , , , , , , , , , , , , , , , , ,							a de la constitución de la const		
						A THEORY OF THE PARTY OF THE PA			
					. Alban ka a ka k				
				a maria	A Park				
				and a second					
	•		g property and the same of the	Criple	10 10	55			
				Perg Co	0				ŧ
	1								
					,		,		
									Magazine
									<u>************************</u>
									<del></del>
		<del></del>							·····
ne stabilization	criteria for ea	ch fleid paramete	r (three consec	utive readings o	ollected at 3- to	5-minute interval	s) is listed in each	n column heading.	
		METHOD DEVIAT			*				

VALL A	1 Na. 82B	- 0				A			
	No. 253			<del></del>	SHWGHA N	ime GE M	ittsfield	-GMA3	
,	Background (p		<del></del>	9	lampling Person				
	l Hendepace (p		<del></del>			the <u>5/2/0</u>			
					·	W OVER	COSTS /jan	train, 50	F
WELL INF	ORMATION						Samnia T	me 12:05	
	rence Point Mer		N		•	r		10 828-A	<del>,</del>
Heigh		20int 42.46	Mens. F	from Groun	<u>.cl</u>			ID GMA3-	
	Wed Dian		<del></del>					so Collecte	
Sc		epth <u> </u>		rom Fie G	rowal		Sp#t Sample		
	Well D			rom TIL	<del></del>	_			
Leng		mm 8.33	<i>(</i>	10m <u>776</u>		Required		cal Paremeters:	Collected
Volum	me of Water in \	Nel 1.36 .	allons			( )		Cs (Std. list)	( )
	oth of Pump/Tul			rom <u>Groun</u>	.J	( )	VO	Ca (Exp. list)	( )
						( )	PY	SVOCs CBs (Total)	( )
	oint Identification					(V)		a (Dissolved)	( )
	Inner (PVC) Ca					( <sup>7</sup> )		norganics (Total)	(*C)
	f Outer (Protect Ground Surfac					( )		ganics (Dissolved)	( )
CIENTO DOG.	Ground String					( )		mide (Dissolved)	( )
Redevelop?	Y (18)					( )	PAC Cy	nide (Dissolved)	( )
						( )	PCI	DOs/PCDFs	( )
						( )		les/Herbicides	( )
						( )		M Attenuation	( )
	N INFORMATIC					, ,	Othi	w (Specify)	( )
	Pump Start Tim								
	Pump Stop Tim	· 12:45		•	Evacuation M	lethod: Bailer	/ \ 191md-d	P4	
	rutes of Pumpin		<del></del> .		Peristaltic Pui		ubmersible Pump	Pump ( )	<b>.</b>
		a 2.75 g	allons			Geo Pu	m by 2.	() Other/Sp	pecify ( )
' E	Old Well Go Dry	7 Y 🐼						on? (Y) N (spec	
	Makin On the			10				•	
	Traini Guiday	ween i Abe(s) \	Serial Numbers	: <u>YSI-5</u>	56 MPS	Ho	ch 2100	P-Turbio	limiter
	Pump	Total	Water	Temp.	Hq	Sp. Cond.	** ***	<u> </u>	·
Time	Rate	Gallone	Level	(Celaius)		(mS/cm)	Turbidity (NTU)	00	ORP
ļ	(L/min.)	Removed	(R TIC)	[3%]*	i0.1 unitsi*	[3%]*	[10% or 1 NTUP	(mg/l) [10% or 0.1 mg/l]*	(mV)
11:05	100 ml	0.13	3.52				Z	Trown of the training	[10 mV]*
11:15	100ml	0.40	3.53	6.79	622	1 590			
	100ml		3.53		6.33	0.599	Z	6.20	4.0
		0.53	·	6.65	6.29	0.598	1	3.15	3.3
		0.66	3.53	6.54	6.28	0.596	2	z.04	2.7
	100ml		3.53	6.52	6.28	0.591	Z	1.44	2.4
11-35	100ml	0.92	3.54	6.51	6.Z8		2	1-21	
									2.4
	100ml	1.06	353	1/0.77					
11:40		1.06	3.53 254		,	0.580	こ .	1.07	2.4
11:40 11:45	100ml	1.19	3.54	6.52	6.28	0.577	,	194	2.3
11:40 11:45 The stabilization	/OOM) n criteria for eac	/-19 In field paramete	3.54 er (three consec	6.52	6.28	0.577		194	
11:40 11:45 The stabilization	/UDM   n criteria for eac S/SAMPLING N	/-/9 h field paramete	3.54 er (three consec	6.52 sutive readings or	6.28 offected at 3- to 5	0.577	,	194	
11:40 11:45 The stabilization	/UDM   n criteria for eac S/SAMPLING N	/-/9 h field paramete	3.54 er (three consec	6.52 sutive readings or	6.28 offected at 3- to 5	0.577	,	194	
11:40 11:45 The stabilization	/UDM   n criteria for eac S/SAMPLING N	/-/9 h field paramete	3.54 er (three consec	6.52 sutive readings or	6.28 offected at 3- to 5	0.577	,	194	
11:40 11:45 The stabilization	/UDM   n criteria for eac S/SAMPLING N	/-/9 h field paramete	3.54 er (three consec	6.52 sutive readings or	6.28 offected at 3- to 5	0.577	,	194	
11:40 11:45 The stabilization DBSERVATIONS Zn. find	100ml n criteria for eac S/SAMPLING N Purge Purge	/-/9 h field paramete	3.54 er (three consec	6.52 sutive readings or	6.28 offected at 3- to 5	0.577	,	194	
11:40 11:45 The stabilization DBSERVATION Zn. fin.	100ml n criteria for eac S/SAMPLING N Purga Purga	/-/9 h field paramete	3.54 er (three consec	6.52 sutive readings or	6.28 offected at 3- to 5	0.577	,	194	
11:40 11:45 The stabilization OBSERVATIONS End 1	100ml n criteria for eac S/SAMPLING N Purge Purge  MATION SGS	/-/9 h field paramete	3.54 er (three consec	6.52 sutive readings or	6.28 offected at 3- to 5	0.577	) is listed in each	O.94 column heading.	
11:40 11:45 The stabilization OBSERVATIONS Final AMPLE DESTIN Laboratory:	NOOM!  In criteria for eac  S/SAMPLING IN  Purge  Purge:  NATION  SGS  Fed. Ex	/-/9 h field paramete	3.54 er (three consec	6.52 where readings on method no odor	6.28 olected at 3- to 5	0.577	) is listed in each	O.94 column heading.	
11:40 11:45 The stabilization DBSERVATION Thirtie Final	NOOM!  In criteria for eac  S/SAMPLING IN  Purge  Purge:  NATION  SGS  Fed. Ex	/-/9 h field paramete	3.54 er (three consec	6.52 where readings on method no odor	6.28 offected at 3- to 5	0.577	,	O.94 column heading.	

C:IMORROBEGIOUNGHAMANTESATESATESATESATES

	• • • • • • • • • • • • • • • • • • • •
Well No. 82 B - R Ste/GMA	Name GE Pitsfill - GMA3
Sampling Pers	onnel GAR/RIP
	Date 5/2/08
We	pather Overcast, 50°F

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]*
11:50	100ml	1.32	3.52	6.52	6.29	0.574	Z	0.90	2.3
11:55	100ml	1.45	3.52			0.571	1	0.83	2.5
12:00	100ml		3.52	6.43	6.29	0.566	1	0.81	2.8
				-					
				ļ				-	
				<del> </del>					
· · · · · · · · · · · · · · · · · · ·									
					* ·			······································	
			***************************************						·····
				- 1					
									·····
				1	1	1			

L	L								
* The stabilizat	ion criteria for ea	ach field parame	ter (three conse	cutive readings	collected at 3- to	5-minute interv	als) is listed in eac	h column heading.	
OBSERVATIO	NS/SAMPLING	METHOD DEVI	ATIONS				,	a column neading.	
							***		
						<del></del>		<del></del>	
	<del></del>			······································			······································		
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·						

Well	No				She/Ghea N		3, G16	ン・ロエエト	1121/1	
Key		x-37			Ampling Person	nnel V 10			held	
	Background (p					Date 5/6	5/08		<del></del>	
Well	i Hendepaca (p	pm)	-		West	ther Sun	7	i		· · · · · ·
										***************************************
	ORMATION						Sample 1	Dme //	100	
	ence Point Med		N			r	Sampl			
Heigh	t of Reference I		Moss. F	rom			Duplicat		<u></u>	
0		epth <u>43-</u> 4	173	^	,		MSA			<del></del>
	Water Table D		-	rom Groun			Sp#t Sample	• ID	**************************************	
		opth 47,	12 Moss, F	rom T/L	·····	_				*******
Lengt	th of Water Colu					Require		tical Parameters:	Collected	ŧ
	ne of Water in \	7	gallons			(*)		OCs (Skd. list)	(为	
Intaka Dep	oth of Pump/Tut	ing 1 45	Meas, Fr	om _ 7/4		ر ) ( محد)	VC	XCa (Exp. list)	( )	
								SVOCs CBs (Total)	( >4)	
	oint Identificatio					( )		Sa (Dissolved)	( )	
	Inner (PVC) Ca					( )		Inorganics (Total)	( )	
	f Outer (Protecti Ground Surfec					( )		rganics (Dissolved)	( )	
Ciada Dag,	GIOURG SUIREC	<b>.</b>				( )		anida (Dissolved)	( )	
Redevelop?	YN					( )	PAC Cy	anide (Dissolved)	( )	
						( )		DDs/PCDFs	( )	*
						( )		ides/Herbicides	( )	
						(★)		al Attenuation		
	N INFORMATIC	1 ~ ~ ~				` ,	Çaı	er (Specify)	( )	
			1							
	Pump Start Tim Pump Stop Tim utes of Pumpin Water Remove id Well Go Dry	150	Iloni	,	Evacuation N Peristaltic Pu Pump Type: Samples colle	mp (x) s GLOPIX	ubmersible Pump		Specify ( )	·•
. I Min Volume of \	Pump Stop Tim utes of Pumpin Water Removed hid Well Go Dry	150	)	YSI	Peristatic Pu Pump Type: Samples colle	mp (X) S GLD P(X) ected by same m	Submersible Pump 2002 Nethod as evacuati	( ) Other/s	ncily) HACH (	
. Mini Volume of V	Pump Stop Tim utes of Pumpin Water Remove id Well Go Dry  Water Quality  Pump	1450   150   150   150   Y   150   150 	Serial Numbers	Temp.	Peristatic Pu Pump Type: Samples colle	mp (X) S GLD P(X) ected by same m	Submersible Pump 2002 Nethod as evacuati	( ) Other/S	HACH (	aloop Yrbidiy
	Pump Stop Tim uttes of Pumpin Water Remove id Well Go Dry  Water Quality  Pump Rate	y V V V V V V V V V V V V V V V V V V V	Serial Numbers	Temp. (Celsius)	Peristaltic Pu Pump Type: Samples colle 550	mp (X) S GLD PLX ected by same m PS O  "Sp. Cond. (mS/cm)	tubriersible Pump  19 2  method as evacuati  30039  Turbidity  (NTU)	() Other/s lon? Y N (spe  ZAE 77  DO  (mg/l)	DORP	
Mini Volume of V	Pump Stop Tim utes of Pumpin Water Remove ild Well Go Dry  Water Quality  Pump Rate (L/min.)	y Y N  Meter Type(s) /:  Gailons Removed	Serial Numbers:  Water Level (ft TIC)	Temp.	Peristatic Pu Pump Type: Samples colle	mp (X) S GLD PLX ected by same m PS O	tubriersible Pump  19 2  method as evacuati  30039  Turbidity  (NTU)	() Other/s ion? Y N (spe	DORP	
Minime of Volume of Volume of Volume	Pump Stop Tim utes of Pumping Water Removed id Well Go Dry  Water Quality  Pump Rate (L/min.)	y V V V V V V V V V V V V V V V V V V V	Serial Numbers	Temp. (Celsius)	Peristaltic Pu Pump Type: Samples colle 550	mp (X) S GLD PLX ected by same m PS O  "Sp. Cond. (mS/cm)	tubriersible Pump  19 2  method as evacuati  30039  Turbidity  (NTU)	() Other/s lon? Y N (spe  ZAE 77  DO  (mg/l)	DORP	
Minime of Volume of Volume of Volume	Pump Stop Tim utes of Pumpin Water Remove Hid Well Go Dry  Water Quality  Pump Rate (L/min.)  / 50	y Y N  Meter Type(s) /:  Gailons Removed	Serial Numbers:  Water Level (ft TIC)	Temp. (Celsius)	Peristaltic Pu Pump Type: Samples colle 5550 pH [0.1 units]*	mp (X) S GLD PLX ected by same m PS O  "Sp. Cond. (mS/cm) [3%]*	tubriersible Pump  19 2  nethod as evacuati  30039  Turbidity  (NTU)  [10% or 1 NTUP	( ) Other/s ion? Y N (spe ZAE #7  DO (mg/l) (10% or 0.1 mg/l)	ORP (mv) [10 mv]	
Minime Volume of	Pump Stop Tim utes of Pumping Water Removed id Well Go Dry  Water Quality  Pump Rate (L/min.)	Meter Type(s) /:  Total Gallone Removed 0.59	Serial Numbers  Water Level (RTIC)  2,60  0.79	Temp. (Cetaius) [3%]*	Peristaltic Pur Pump Type: Samples colle 550 pH (0.1 units)*	mp (X) S GLD PLX pected by same m PS O  Sp. Cond. (ms/cm) [3%]*	Turbidity (NTU) (10% or 1 NTU)	() Other/s ion? Y N (spe Z A C 77  DO (mg/l) [10% or 0.1 mg/l]  41, 42	ORP (mV)	
Minime of Volume	Pump Stop Timutes of Pumping Water Removed Old Well Go Dry  Water Quality  Pump Rate (L/min.)  / 50	Meter Type(s) /:  Total Gallone Removed 0.59	Serial Numbers  Water Level (R TIC)  2,60  0.79	Temp. (Ceisius) [3%]*	Peristaltic Pur Pump Type: Samples colle 550 pH [0.1 units]*	mp (X) S GLD PLX ected by same m PS O  Sp. Cond. (mS/cm) [3%]*	tubriersible Pump  19 2  nethod as evacuati  30039  Turbidity  (NTU)  [10% or 1 NTUP	( ) Other/s ion? Y N (spe ZAE #7  DO (mg/l) (10% or 0.1 mg/l)	ORP (mv) [10 mv]	
Min. Volume of V	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality Pump Rate (L/min.) /50 /50	Meter Type(s)/:  Total Gallone Removed 0.59	Serial Numbers  Water Level (RTIC)  2,60  0.79	Temp. (Cetaius) [3%]*	Peristaltic Pur Pump Type: Samples colle 550 pH (0.1 units)*	mp (X) S GLD PLX pected by same m PS O  Sp. Cond. (ms/cm) [3%]*	Turbidity (NTU) (10% or 1 NTU)	() Other/s ion? Y N (spe 2 A C 77  DO (mg/l) [10% or 0.1 mg/l]  C1, 212	ORP (mV) -171,5	
Min. Volume of V	Pump Stop Timutes of Pumping Water Removed Old Well Go Dry  Water Quality  Pump Rate (L/min.)  / 50	Meter Type(s) /:  Total Gallone Removed 0.59	Serial Numbers  Water Level (R TIC)  2,60  0.79	Temp. (Ceisius) [3%]*	Peristaltic Pur Pump Type: Samples colle 550  pH  i0.1 unitate 8133 8.65	mp (X) S GLD PIX ected by same m PS O  "Sp. Cond. (mS/cm) [3%]*  1, 622  1. 614	Submersible Pump  AP Z  method as evacuati  SCO 3 9  Turbidity  (NTU)  [10% or 1 NTUP  A    A    A    A    A    A    A    A	() Other/s lon? Y N (spe 2 A C \$77  DO (mg/l) [10% or 0.1 mg/l]  4, 42  1, 90  1, 34	ORP (rav) -171,5 -214,7 -228,5	
Mini Volume of V	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality Pump Rate (L/min.) /50 /50	1950   150	Serial Numbers  Water Level (ft TIC)  2.60  0.79  0.99  1.19	Temp. (Cotatum) [3%]*  12.13 11.18 11.99	Peristatic Pur Pump Type: Samples colle 550 pH (0.1 units)*  8133 8165 8177	mp (X) S GLD PLX poted by same m PS O  "Sp. Cond. (mS/cm) [3%]*  1, 622  1.614  1.611	Turbidity (NTU) [10% or 1 NTUP  20  18  19  19  19  19  19  19  19  19  19	() Other/s ion? Y N (special Special S	ORP (may) [10 my] -17 ], 5 -214, 7 -228, 5 -229, 1	
Time  236 246 250 255 250	Pump Stop Timutes of Pumping Water Removed old Well Go Dry's Water Quality  Pump Rate (L/min.)  /50  /50  /50  /50	1950   150	Serial Numbers  Water Level (RTIC)  2,60  0-79  0.99  1.19  1.39	Temp. (Celeius) [3%]*  12.13  11.18  11.99  11.89	Peristaltic Pur Pump Type: Samples colle 550 pH i0.1 unitar* 8133 8165 8177 8177	mp (X) S GLD PIX ected by same m PS O  "Sp. Cond. (mS/cm) [3%]*  1, 622  1. 614	Submersible Pump  AP Z  method as evacuati  SCO 3 9  Turbidity  (NTU)  [10% or 1 NTUP  A    A    A    A    A    A    A    A	() Other/s lon? Y N (spe 2 A C \$77  DO (mg/l) [10% or 0.1 mg/l]  4, 42  1, 90  1, 34	ORP (rav) -171,5 -214,7 -228,5	
Time  236 246 250 255 300 305	Pump Stop Timutes of Pumpins Water Removes Indi Well Go Dry Water Quality Pump Rate (L/min.) /50 /50 /50 /50 /50	1950   150	Seriel Numbers	Temp. (Cotatum) [3%]*  12.13 11.18 11.99	Peristatic Pur Pump Type: Samples colle 550 pH (0.1 units)*  8133 8165 8177	mp (X) S GLD PLX poted by same m PS O  "Sp. Cond. (mS/cm) [3%]*  1, 622  1.614  1.611	Turbidity (NTU) [10% or 1 NTUP  20  18  19  19  19  19  19  19  19  19  19	() Other/s lon? Y N (spectrum)  CAC #7  DO (mg/l)  [10% or 0.1 mg/l]  C4, 42  1.90  1.34  1.10  0.96	HACH (  ORP  (may)  10 myp  -171,5  -214.7  -228.5  -234.3	
Time  236 245 250 255 300 305 310	Pump Stop Timutes of Pumping Water Removed Hid Well Go Dry Water Quality  Pump Rate (L/min.)  /50  /50  /50  /50  /50  /50	1950   150	Seriel Numbers	Temp. (Cetatus) [3%]*  12.13 11.89 11.89 11.89 11.98	Peristaltic Pur Pump Type: Samples colle 550 pH i0.1 unitar 8133 8.65 8.77 8.79 8.79 8.82 8.24	mp (X) S GLD PIX ected by same m PS O  Sp. Cond. (mS/cm) [3%]*  1, 622  1, 614  1, 614  1, 614  1, 614	Turbidity (NTU) [10% or 1 NTU]  20  18  19  20  20  20  20  20  20  20	() Other/s lon? Y N (spectrum)  CAE #7  DO (mg/l)  (10% or 0.1 mg/l)  1, 42  1, 90  1, 34  1, 10  0, 96  0, 81	17 / S -17 / S -214.7 -228.5 -234.3 -249.7	
Minime of Volume	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality  Pump Rate (L/min.)  /50  /50  /50  /50  criteria for each	Meter Type(s) /:  Gallone Removed  0.59	Seriel Numbers  Water Level (ft Tic)  2,60  0.79  0.99  1.19  1.39  1.78  1.78  1.98  I (three consec	Temp. (Cetatus) [3%]*  12.13 11.89 11.89 11.89 11.98	Peristaltic Pur Pump Type: Samples colle 550 pH i0.1 unitar 8133 8.65 8.77 8.79 8.79 8.82 8.24	mp (X) S GLD PIX ected by same m PS O  Sp. Cond. (mS/cm) [3%]*  1, 622  1, 614  1, 614  1, 614  1, 614	Turbidity (NTU) [10% or 1 NTU]  20  18  19  20  20  20  20  20  20  20	() Other/s lon? Y N (spectrum)  CAE #7  DO (mg/l)  (10% or 0.1 mg/l)  1, 42  1, 90  1, 34  1, 10  0, 96  0, 81	HACH (  ORP  (may)  10 myp  -171,5  -214.7  -228.5  -234.3	
Min Volume of Vo	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality  Pump Rate (L/min.)  /50  /50  /50  /50  criteria for each	1950   150	Seriel Numbers  Water Level (ft Tic)  2,60  0.79  0.99  1.19  1.39  1.78  1.78  1.98  I (three consec	Temp. (Cetatus) [3%]*  12.13 11.89 11.89 11.89 11.98	Peristaltic Pur Pump Type: Samples colle 550 pH i0.1 unitar 8133 8.65 8.77 8.79 8.79 8.82 8.24	mp (X) S GLD PIX ected by same m PS O  Sp. Cond. (mS/cm) [3%]*  1, 622  1, 614  1, 614  1, 614  1, 614	Turbidity (NTU) [10% or 1 NTUP  20  18  19  20  20  20  20  20  20  20  20  20	() Other/s lon? Y N (spectrum)  CAE #7  DO (mg/l)  (10% or 0.1 mg/l)  1, 42  1, 90  1, 34  1, 10  0, 96  0, 81	17 / S -17 / S -214.7 -228.5 -234.3 -249.7	
Time  235 245 250 255 305 305 310  stabilization SERVATIONS	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality  Pump Rate (L/min.)  /50  /50  /50  /50  criteria for each	Meter Type(s) /:  Gallone Removed  0.59	Serial Numbers  Water Level (ft Tic)  2,60  0.79  0.99  1.19  1.39  1.78  1.78  1.98  I (three consecutions	Temp. (Cetatus) [3%]*  12.13 11.89 11.89 11.89 11.98	Peristaltic Pur Pump Type: Samples colle 550 pH (0.1 units)*  8133  8165  8177  8179  8874	mp (X) S GLD PIX ected by same m PS O  Sp. Cond. (mS/cm) [3%]*  1. 622  1. 614  1. 614  1. 614  1. 614  1. 622  5-minute interval	Submersible Pump  19 2  nethod as evacuati  30039  Turbidity (NTU) [10% or 1 NTUP  24  20  18  19  20  20  39  a) is listed in each	() Other/s lon? Y N (spectrum)  CAC #7  DO (mg/l)  (10% or 0.1 mg/l)  1, 42  1, 90  1, 34  1, 10  0, 96  0, 74  column heading.	17 / S -17 / S -214.7 -228.5 -234.3 -249.7	
Minime  A35  245  245  250  255  305  305  310  e stabilization  SERVATIONS  VI NOIL  UCLEY	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality  Pump Rate (L/min.)  /50  /50  /50  /50  criteria for each RSAMPLING M PYGE (LYXI)	Meter Type(s) /:  Total Gallone Removed  0.59	Serial Numbers  Water Level (ft Tic)  2,60  0.79  0.99  1.19  1.39  1.78  1.78  1.98  I (three consecutions	Temp. (Cetaius) [3%]*  12.13 11.18 11.99 11.89 11.89 11.98 11.73 utive readings of	Peristaltic Pur Pump Type: Samples colle 550 pH i0.1 units P 8133 8165 8177 8179 8179 8179 8179 8179 8179 8179	mp (X) S GLD PIX ected by same m PS O  Sp. Cond. (mS/cm) [3%]*  1, 622  1, 614  1, 614  1, 614  1, 614  1, 619  1, 622  5-minute interval	Turbidity (NTU) [10% or 1 NTUP 20 18 10 20 20 39 is listed in each	() Other/s lon? Y N (specification? I) On (mg/l)  (4) 42  1.90  1.34  1.10  0.81  0.81  0.74  column heading.	17 / S -17 / S -214,7 -228,5 -234,3 -249,7	
Min Volume of Vo	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality  Pump Rate (L/min.)  /50  /50  /50  /50  criteria for each RSAMPLING M PMG e  (LYMING M)	Meter Type(s) /:  Total Gallone Removed  0.59	Seriel Numbers  Water Level (RTIC)  2.60  0.79  0.99  1.19  1.39  1.78  1.78  1.98  I (three consecutions	Temp. (Cetaius) [3%]*  12.13  11.18  11.99  11.89  11.98  11.98  11.73  utive readings accordings according	Peristaltic Pur Pump Type: Samples colle 550 pH i0.1 units P 8133 81,65 81,77 81,77 81,79	mp (X) S GLD PIX ected by same m PS O  Sp. Cond. (mS/cm) [3%]*  1, 622  1, 614  1, 614  1, 614  1, 614  1, 619  1, 622  5-minute interval	Turbidity (NTU) [10% or 1 NTUP 20 18 10 20 20 39 is listed in each	() Other/s lon? Y N (spectrum)  CAC #7  DO (mg/l)  (10% or 0.1 mg/l)  1, 42  1, 90  1, 34  1, 10  0, 96  0, 74  column heading.	17 / S -17 / S -214,7 -228,5 -234,3 -249,7	
Minime of Volume	Pump Stop Timutes of Pumping Water Removed Hid Well Go Dry Water Quality  Pump Rate (L/min.)  /50  /50  /50  /50  /50  criteria for each standard Removed Plouds  Plouds	Meter Type(s) /:  Gailone Removed  0.59	Serial Numbers  Water Level (RTIC)  2,60  0-79  0.99  1.79  1.79  1.78  1.78  1.78  1.78  1.78  1.78  1.78	Temp. (Celeius)   [3%]*	Peristatic Pur Pump Type: Samples colle 550 pH (0.1 units)*  8133 8,65 8,77 8,77 8,77 8,79 8,82 8,74 blected at 3- to 5	Imp (X) S GLD PIX GLD	Turbidity (NTU) [10% or 1 NTUP 20 18 10 20 20 39 is listed in each	() Other/s  Inn? Y N (specification? Inn)  DO (mg/l)  [10% or 0.1 mg/l]  [41, 42  [1, 90  [1, 34  [1, 10  [0, 74  [0, 74  [0, 74  [0, 74  [0, 0]	17 / S -17 / S -214,7 -228,5 -234,3 -249,7	
Minimo of Volume	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality  Pump Rate (L/noin.)  /50  /50  /50  /50  /50  /50  /50  Criteria for each RISAMPLING M PNG P  (LYXIII)  ATION	Meter Type(s) /:  Gailone Removed  0.59	Seriel Numbers  Water Level (RTIC)  2.60  0.79  0.99  1.19  1.39  1.78  1.78  1.98  I (three consecutions	Temp. (Celeius) [3%]*  12.13  11.18  11.99  11.89  11.89  11.73  ither readings on one of the property of the	Peristaltic Pur Pump Type: Samples colle 550 pH j0.1 units P 8133 8.165 8.77 8.79 8.79 8.79 8.74 blected at 3- to 5 PC gu low Part All Part Part Part Part Part Part Part Part	Imp (X) S GLD PIX Dected by same in PS O  Sp. Cond. (mS/cm) [3%]*  1, 622  1. (614  1. (614  1. (614)  1. (614)  1. (614)  1. (610)  1. (622)  5-minute interval  1. (622)  5-minute interval	Submersible Pump  AP 2  method as evacuati  COS9  Turbidity (NTU) [10% or 1 NTUP  AU  AU  20  18  10  20  39  is listed in each  AU  AU  AU  AU  AU  AU  AU  AU  AU  A	() Other/s  Inn? Y N (specification? Inn)  DO (mg/l)  [10% or 0.1 mg/l]  [41, 42  [1, 90  [1, 34  [1, 10  [0, 74  [0, 74  [0, 74  [0, 74  [0, 0]	17 / S -17 / S -214,7 -228,5 -234,3 -249,7	
Time  236 245 250 245 250 305 310 e stabilization SERVATIONS NACLEY WOSA CYENED PLE DESTINA aboratory:	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality  Pump Rate (L/min.)  /50  /50  /50  /50  /50  /50  /50  Contains for each RAMPLING M PUMPING	Meter Type(s) /:  Gailone Removed  0.59	Serial Numbers  Water Level (RTIC)  2,60  0-79  0.99  1.79  1.79  1.78  1.78  1.78  1.78  1.78  1.78  1.78	Temp. (Celeius) [3%]*  12.13  11.18  11.99  11.89  11.89  11.73  ither readings on one of the property of the	Peristaltic Pur Pump Type: Samples colle 550 pH j0.1 units P 8133 8.165 8.77 8.79 8.79 8.79 8.74 blected at 3- to 5 PC gu low Part All Part Part Part Part Part Part Part Part	Imp (X) S GLD PIX GLD	Submersible Pump  AP 2  method as evacuati  COS9  Turbidity (NTU) [10% or 1 NTUP  AU  AU  20  18  10  20  39  is listed in each  AU  AU  AU  AU  AU  AU  AU  AU  AU  A	() Other/s  Inn? Y N (specification? Inn)  DO (mg/l)  [10% or 0.1 mg/l]  [41, 42  [1, 90  [1, 34  [1, 10  [0, 74  [0, 74  [0, 74  [0, 74  [0, 0]	17 / S -17 / S -214,7 -228,5 -234,3 -249,7	
Time  235 250 245 250 305 305 310  The stabilization SERVATIONS ACCILLY TWOSE	Pump Stop Timutes of Pumping Water Removed Ind Well Go Dry Water Quality  Pump Rate (Limin.)  /50  /50  /50  /50  /50  /50  /50  /5	Meter Type(s) /:  Gailone Removed  0.59	Serial Numbers  Water Level (RTIC)  2,60  0-79  0.99  1.79  1.79  1.78  1.78  1.78  1.78  1.78  1.78  1.78	Temp. (Celeius) [3%]*  12.13  11.18  11.99  11.89  11.89  11.73  ither readings on one of the property of the	Peristaltic Pur Pump Type: Samples colle 550 pH j0.1 units P 8133 8.165 8.77 8.79 8.79 8.79 8.74 blected at 3- to 5 PC gu low Part All Part Part Part Part Part Part Part Part	Imp (X) S GLD PIX Dected by same in PS O  Sp. Cond. (mS/cm) [3%]*  1, 622  1. (614  1. (614  1. (614  1. (614)  1. (614)  1. (610)  1. (622)  5-minute interval  1. (622)  5-minute interval	Submersible Pump  AP 2  method as evacuati  COS9  Turbidity (NTU) [10% or 1 NTUP  AU  AU  20  18  10  20  39  is listed in each  AU  AU  AU  AU  AU  AU  AU  AU  AU  A	() Other/s  Inn? Y N (specification? Inn)  DO (mg/l)  [10% or 0.1 mg/l]  [41, 42  [1, 90  [1, 34  [1, 10  [0, 74  [0, 74  [0, 74  [0, 74  [0, 0]	17 / S -17 / S -214,7 -228,5 -234,3 -249,7	

Well No.	89 A	Site/GMA Name Sampling Personnel	GNAZ GE PINSFREID
	•	Date	5/5/08
		Weather	- 70, Sunny Slight breeze
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)	DO (mg/l)	ORP (mV)
1315	150	1.6	2.18	11,127		1,774	55	[10% or 0.1 mg/l]*	
1320	150	1.65	2.38	11.65	7,78	1.871	53	0.48	-197-
1325	150	4-80	2.58	11,60	7.83	1.892	39	0.58	-197.5
1330	150	1.95	2.77	11.59	7.82	1.898	<i>38</i>	0.57	-182.5
1335	150	2.10	2.97	11,74	7.82	1.897	36	0.56	-1751
1338	150	a. a5	3.09	11.65	7.87	1,904	33	0,56	-172,6
1341	150	<del>2.40</del>	3.21	11.76	7,72	1,904	33	0,54	-172.4
1344	150	<del>2.66</del>	3.33	11,68	7,75	1,908	28	0,54	-172,3
1347	150	2.80	3.45	11.59	7,77	1.908	29	0.55	-1723
1350	150	8.95	3.57	11.58	7.76	1,908	27	0.54	-171.9
1353	150	3.10	2.69	11,67	7,79	1,908	25	0.54	-171,4
1356	150	3,25	3.80	11.73	7,78	1,908	a5		-170.8
359	150	3.40	200	11.80	7,74	1,909	26	0,53	
1400-	$=$ $\angle$	$\rightarrow$ Sc	ampl		140	l I		e -	1703
	<u></u>	3.92	*3.a5			5 59	700		
									<del></del>
e stabilization	Criteria for each	field narameter	(4)	h					

	<u> </u>							}		
	* The stabilizati	on criteria for e	ach field parame	ter (three conse	cutivo readings	Application 1 of Co. 1	-	l	h column heading.	
	ORSEDVATIO	JC/CAMPI INC	METHOD DEVI		couve readings	collected at 3- to	5-minute interv	als) is listed in eac	h column heading.	
	OBOLINATIO	10/3AMPLING	WE I HOD DEAN	ATIONS						
					· · · · · · · · · · · · · · · · · · ·					
					<del></del>					
٠										

Well Key	No.			_					
•	Background (p	A/A		S	Ampling Persor		ZIKC		
	Hendepace (p		······································	<del></del>		ate _5/9	108		
	(F	17/05	<del></del>		. West	Dubb	4 Close, 3	5650 Lt 1	wel
WELL INFO	DRMATION	ß					Comple W		_
Refer	once Point Meri	cod? (y)_A	•	_		r	Sample 11 Sample		<u> </u>
Height	of Reference F	Point 1	Mens. F	rom £			Duplicate		
1 -	Well Diam			0.4			MSA	——————————————————————————————————————	<del></del>
	noon interval D		Mous. F	***************************************			Split Sample		
	Water Table Do	$\frac{1}{2}$	Moss. F	<del></del>					
Lengt		mn <u>5.7</u>	Mone, F	rom	<b>∠</b>	Require	d <u>Annivit</u>	cal Parameters:	Collected
		Nel 0.99						Cs (Skt. list)	( میلر)
Intake Dep	th of Pump/Tub	ing 15, 4	Meas, Fr	rom TIC	-	( )	VO	Ca (Exp. list)	( )
							n.	SVOC	(ナ)
	oint Identificatio					( )		:Bs (Total) s (Dissolved)	( )
	nner (PVC) Ca					· · ·		organics (Total)	( )
	Outer (Protect					( )		ganics (Dissolved)	( )
:208/BGS	Ground Surfac	<b>.</b>				( )		nide (Dissolved)	( )
edevelop?	Y					( )		nide (Dissolved)	( )
		•				( )		Ds/PCDFs	( )
						( )		los/Herbicides	( )
								Attenuation	(+)
VACUATION	INFORMATIC	IN .				١ /	Ume	v (Specify)	( )
Min Volume of \	Pump Stop Tim utes of Pumpin Water Removed Id Well Go Dry Water Quality	102 5.49A	<del></del>	· :_# <sup>2</sup>		octed by same m	iubmersible Pump Cofunp 2 nethod as evacuatio	m? N (spec	ify)
Min Valume of \	utes of Pumpin Water Remove Id Well Go Dry	5. 4 9A	<del></del>	Temp.	Peristatic Pur Pump Type: Samples colle	np (X S	Submersible Pump	( ) Other/Sp in? ( ) N (spec a c 4 2/00	P Turki
Min Volume of \	utes of Pumping Water Removed id Well Go Dry  Water Quality  Pump Rate	y N N Meter Type(s) / S Total Gallons	Serial Numbers: Water Level		Peristattic Pur Pump Type: Samples colle	octed by same m	iubmersible Pump <u>CO Pump</u> 2 method as evacuation	( ) Other/Sp m? ( ) N (spec a L / 2/00	P Turki
Min Volume of N D	water Removed id Well Go Dry!  Water Quality  Pump  Rate (L/msis.)	9 / 0 2. d 5. 4 9 A 7 Y N  Meter Type(s) / 5	Water Level (ft TIC)	Temp.	Peristatic Pur Pump Type: Samples colle	mp (X G) cted by same m 556 M f	Submersible Pump	( ) Other/Sp in? ( ) N (spec a c 4 2/00	P Turki
Min Volume of \ D	water Guality Water Quality Water Quality Pump Rate (L/min.)	y N N Meter Type(s) / S Total Gallons	Serial Numbers: Water Level	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle	mp (X G)  octed by same m  556 M f  Sp. Cond.  (Ins/cm)	Submersible Pump	( ) Other/Sp m? ( ) N (spec a L / 2/00 DO (mg/l)	ORP
Min Volume of \ D	water Removed id Well Go Dry!  Water Quality  Pump  Rate (L/msis.)	y N N Meter Type(s) / S Total Gallons	Water Level (ft TIC)	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle  VG 1-5  pH  [0.1 units]*	mp (X G)  octed by same m  556 M f  Sp. Cond.  (Ins/cm)	Turbidity (NTU) [10% or 1 NTUP	( ) Other/Sp on? ( ) N (spec o	ORP (mV) [10 mV]*
Min Volume of N D	water Guality Water Quality Water Quality Pump Rate (L/min.)	Meter Type(s)/S  Total Gailone Removed	Water Level (ft TIC)	Temp. (Celaius) [3%]*	Peristatic Pur Pump Type: Samples colle  VGT 5  pH  [0.1 units]*	sp. Cond. (ms/cm) [3%]*	Turbidity [10% or 1 NTUP	() Other/Sp m? () N (spec a c \( \frac{2}{0}\) O (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
Volume of V D Time 213 225 230	water Guality Water Quality Water Quality Pump Rate (L/min.)	Meter Type(s)/S  Total Gailone Removed	Water Level (ft TIC)	Temp. (Celeius) [3%]*	Peristatic Pur Pump Type: Samples colle  VGT 4  pH  [0.1 units]*	mp (X Grant of Grant	Turbidity (NTU) [16] (16) (16) (17)	() Other/Sp on? () N (spec o	ORP (mV) [10 mV]*  -36.0  -21.2
Volume of V D Time 213 225 230 235	water Guality Water Quality Water Quality Pump Rate (L/min.)	Meter Type(s)/S  Total Gallone Removed  0-63 0-89 /-/ 6	Water Level (ft TIC)	Temp. (Celeius) [3%]* 10.80 15.40.61	Peristatic Pur Pump Type: Samples colle VGT 5 pH [0.1 units]*	(ms/cm) (3%)*  0.943  0.947  0.950	Turbidity (NTU) [10% or 1 NTUP	() Other/Sp m? () N (spec a L/ 2/00 (mg/l) [10% or 0.1 mg/l* 22 2 7 16. 36 [2, 47	ORP (mV) [10 mV]*
Volume of Volume	water Guality Water Quality Water Quality Pump Rate (L/min.)	102   5. 49A   Y   N     Meter Type(s) / S   Total   Galfone   Removed     0-63   0-89   / / / 6   / / / 2	Water Level (ft TIC)	Temp. (Celeius) [3%]*	Peristatic Pur Pump Type: Samples colle  VGT 4  pH  [0.1 units]*	mp (X Grant of Grant	Turbidity (NTU) [16] (16) (16) (17)	() Other/Sp m? () N (spec a L/ 2/00 (mg/l) [10% or 0.1 mg/l* 22 2 7 16. 36 [2, 47	ORP (mV) [10 mV]*  -36.0  -21.2
Time 213 225 230 235 240 -45	water Guality Water Quality Water Quality Pump Rate (L/min.)	Meter Type(s)/S  Total Gallone Removed  0-63 0-89 /-/ 6	Water Level (ft TIC)	Temp. (Celeius) [3%]* 10.80 15.40.61	Peristatic Pur Pump Type: Samples colle VGT 5 pH [0.1 units]*	(ms/cm) (3%)*  0.943  0.947  0.950	Turbidity (NTU) [10% or 1 NTUP	Other/Sp on? (P) N (spec a c \( \)	ORP (mV) [10 mV]*  -36,0  -21.2  -26,4  -35,5
Time 213 225 230 235 240 245 250	water Guality Water Quality Water Quality Pump Rate (L/min.)	102   5. 49A   Y   N     Meter Type(s) / S   Total   Galfone   Removed     0-63   0-89   / / / 6   / / / 2	Water Level (ft TIC)	Temp. (Celatus) [3%]*  [0.80  H6.10.61 [0.54  10.49	Peristatic Pur Pump Type: Samples colle  VGT 6  pH  [0.1 units]*  6.16  6.20  0.31	Sp. Cond. (ms/cm) [3%]  0.943  0.947  0.950  0.951	Turbidity (NTU)  16  16  16  11  11  10  10  10  10  10	Other/Sp on? N (spec a L 2/00 (mg/l) [10% or 0.1 mg/l]* 22 2 7 16. 36 12.47 8,26 4,80	ORP (mV) [10 mV]*  -36.0  -21.2  -26.4  -35.5
Time 213 225 230 235 240 -45 -50	water Guality Water Quality Water Quality Pump Rate (L/min.)	102   5. 49A   Y   N   Meter Type(s) / S   Total   Gallone   Removed   0-63   0-89   1-16   1.42   1.69   1.95	Water Level (ft TIC)	Temp. (Celetus) [3%]"   0.80   10.54   10.49   10.62   10.71	Peristatic Pur Pump Type: Samples colle Sygt. 6  pH  [0.1 units]*  6.16  6.20  6.31  6.52  6.58	(ms/cm) (3%)*  0.943  0.947  0.950  0.951  0.952	Turbidity (NTU) [10% or 1 NTUP    10   9   10   9   10   10   10   10	Other/Sp.  (1) Other/Sp.  (2) N (spector)  (2) L/OO  (mg/f)  [10% or 0.1 mg/f*  22 Z 7  16. 36  [2.47  8.26  4.80  3.02	ORP (mV) [10 mV]*  -36,0  -21.2  -26,4  -35,5
Time 213 225 230 235 240 255 250 255	utes of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/min.) 200	Meter Type(s)/5  Total Gallone Removed  0-63 0-89 /-/6 /-95 Z.2.2	Water Level (ft Tic)	Temp. (Coloius) [3%]*  10.80  16.60  10.54  10.49  10.62  10.71	Peristatic Pur Pump Type: Samples colle 3 VGT 5 pH [0.1 units]* 6.16 6.20 6.31 6.52 6.58 6.57	(ms/cm) (ms/cm	Turbidity (NTU) [10% or 1 NTUP    Column   Colum	Other/Sp on? N (spec ou 2/00 DO (mg/l) [10% or 0.1 mg/l]* 22 2 9 16. 36 [2.47 8,26 4.80 3.02	ORP (mV) [10 mV]*  -36.0  -21.2  -26.4  -35.5
Time 213 225 235 235 240 245 250 255 establishation	water Guality Water Quality Water Quality Pump Rate (L/min.) 200 200	102   5. 49A   Y N   N	Water Level (ft TIC)  2 11	Temp. (Coloius) [3%]*  10.80  16.60  10.54  10.49  10.62  10.71	Peristatic Pur Pump Type: Samples colle 3 VGT 5 pH [0.1 units]* 6.16 6.20 6.31 6.52 6.58 6.57	(ms/cm) (ms/cm	Turbidity (NTU) [10% or 1 NTUP    10   9   10   9   10   10   10   10	Other/Sp on? N (spec ou 2/00 DO (mg/l) [10% or 0.1 mg/l]* 22 2 9 16. 36 [2.47 8,26 4.80 3.02	ORP (mV) [10 mV] -36.0 -21.2 -26.4 -35.5 -47.2 -55.2
Time 213 225 235 235 240 245 250 255 astabilization	water Guality Water Quality Water Quality Pump Rate (L/min.) 200 200	102   5. 49   N   N   N   N   N   N   N   N   N	Water Level (ft TIC) 2 11	Temp. (Celeius) [3%]*  10.80  15.40.61 [0.54 10.49 10.62 10.71	Peristatic Pur Pump Type: Samples colle 3 VGT - 5 pH [0.1 units]* G-16 G-20 U-31 G-52 G-58 G-67	(ms/cm) (ms/cm	Turbidity (NTU) [10% or 1 NTUP    Column   Colum	Other/Sp on? N (spec ou 2/00 DO (mg/l) [10% or 0.1 mg/l]* 22 2 9 16. 36 [2.47 8,26 4.80 3.02	ORP (mV) [10 mV] -36.0 -21.2 -26.4 -35.5 -47.2 -55.2
Volume of Volume	water Guality Water Quality Water Quality Pump Rate (L/min.) 200 200	102   5. 49   N   N   N   N   N   N   N   N   N	Water Level (ft TIC) 2 11	Temp. (Coloius) [3%]*  10.80  16.60  10.54  10.49  10.62  10.71	Peristatic Pur Pump Type: Samples colle 3 VGT - 5 pH [0.1 units]* G-16 G-20 U-31 G-52 G-58 G-67	(ms/cm) (ms/cm	Turbidity (NTU) [10% or 1 NTUP    Column   Colum	Other/Sp on? N (spec ou 2/00 DO (mg/l) [10% or 0.1 mg/l]* 22 2 9 16. 36 [2.47 8,26 4.80 3.02	ORP (mV) [10 mV] -36.0 -21.2 -26.4 -35.5 -47.2 -55.2
Min. Volume of V	water Guality Water Quality Water Quality Pump Rate (L/min.) 200 200	102   5. 49   N   N   N   N   N   N   N   N   N	Water Level (ft TIC) 2 11	Temp. (Celeius) [3%]*  10.80  15.40.61 [0.54 10.49 10.62 10.71	Peristatic Pur Pump Type: Samples colle 3 VGT - 5 pH [0.1 units]* G-16 G-20 U-31 G-52 G-58 G-67	(ms/cm) (ms/cm	Turbidity (NTU) [10% or 1 NTUP    Column   Colum	Other/Sp on? N (spec ou 2/00 DO (mg/l) [10% or 0.1 mg/l]* 22 2 9 16. 36 [2.47 8,26 4.80 3.02	ORP (mV) [10 mV] -36.0 -21.2 -26.4 -35.5 -47.2 -55.2
Min. Volume of V	water Guality Water Quality Water Quality Pump Rate (L/min.) 200 200	102   5.49   N   N   N   N   N   N   N   N   N	Water Level (ft TIC) 2 11	Temp. (Celeius) [3%]*  10.80  15.40.61 [0.54 10.49 10.62 10.71	Peristatic Pur Pump Type: Samples colle 3 VGT - 5 pH [0.1 units]* G-16 G-20 U-31 G-52 G-58 G-67	(ms/cm) (ms/cm	Turbidity (NTU) [10% or 1 NTUP    Column   Colum	Other/Sp on? N (spec ou 2/00 DO (mg/l) [10% or 0.1 mg/l]* 22 2 9 16. 36 [2.47 8,26 4,80 3.02	ORP (mV) [10 mV] -36.0 -21.2 -26.4 -35.5 -47.2 -55.2
Volume of Volume	water Gramping Water Removed id Well Go Dry's Water Quality  Pump Rate (Linsin.)  200  200  criteria for each WEAMPLING May	102   5.49   N   N   N   N   N   N   N   N   N	Water Level (ft TIC) 2 11	Temp. (Celeius) [3%]*  10.80  15.40.61 [0.54 10.49 10.62 10.71	Peristatic Pur Pump Type: Samples colle 3 VGT - 5 pH [0.1 units]* G-16 G-20 U-31 G-52 G-58 G-67	(ms/cm) (ms/cm	Turbidity (NTU) [10% or 1 NTUP    Column   Colum	Other/Sp on? N (spec ou 2/00 DO (mg/l) [10% or 0.1 mg/l]* 22 2 9 16. 36 [2.47 8,26 4,80 3.02	ORP (mV) [10 mV] -36.0 -21.2 -26.4 -35.5 -47.2 -55.2
Time 213 225 235 235 245 255 255 stabilization FRVATIONS	water Grander Removed Well Go Dry Water Quality  Pump Rate (Linsin.)  200  200  criteria for each Many May May May May May May May May May Ma	102   5.49   N   N   N   N   N   N   N   N   N	Water Level (ft TIC) 2 11	Temp. (Celeius) [3%]*  10.80  15.40.61 [0.54 10.49 10.62 10.71	Peristatic Pur Pump Type: Samples colle 3 VGT - 5 pH [0.1 units]* G-16 G-20 U-31 G-52 G-58 G-67	(ms/cm) (ms/cm	Turbidity (NTU) [10% or 1 NTUP    Column   Colum	Other/Sp on? N (spec ou 2/00 DO (mg/l) [10% or 0.1 mg/l]* 22 2 9 16. 36 [2.47 8,26 4,80 3.02	ORP (mV) [10 mV] -36.0 -21.2 -26.4 -35.5 -47.2 -55.2
Time  213  225  235  235  240  255  stabilization  ERVATIONS  Tenp	water Guality Water Quality Water Quality Pump Rate (Linsin.) 200 200 criteria for each VSAMPLING M ACLY ATION	102   5.49   N   N   N   N   N   N   N   N   N	Water Level (ft TIC) 2 11	Temp. (Celeius) [3%]*  10.80  15.40.61 [0.54 10.49 10.62 10.71	Peristatic Pur Pump Type: Samples colle 3 VGT - 5 pH [0.1 units]* G-16 G-20 U-31 G-52 G-58 G-67	(ms/cm) (ms/cm	Turbidity (NTU) (10% or 1 NTUP	Other/Sp.  (1) Other/Sp.  (2) N (spector)  (2) Other/Sp.  (3) N (spector)  (4) N (spector)  (6) N (spector)  (7) N (spector)  (8) N (spector)  (9) N (spector)	ORP (mV) [10 mV]*  -36.0  -21.2  -26.4  -35.5  47.2  -55.2  -60.2
Time  213  225  235  235  240  255  stabilization  RVATIONS  1 Cup	water Guality Water Quality Water Quality Pump Rate (Linsin.) 200 200 criteria for each VSAMPLING M ACLY ATION	102   5.49   N   N   N   N   N   N   N   N   N	Water Level (ft TIC) 2 11	Temp. (Celeius) [3%]*  10.80  15.40.61  10.54  10.49  10.62  10.71  10.77  utive readings on	Peristatic Pur Pump Type: Samples colle VGT 5 pH [0.1 units]* G-15 G-16 G-20 U-31 G-52 G-58 G-67	mp (X Grant of Grant	Turbidity (NTU) (10% or 1 NTUP	Other/Sp.  (1) Other/Sp.  (2) N (spector)  (2) Other/Sp.  (3) N (spector)  (4) N (spector)  (6) N (spector)  (7) N (spector)  (8) N (spector)  (9) N (spector)	ORP (mV) [10 mV]*  -36.0  -21.2  -26.4  -35.5  47.2  -55.2  -60.2
Time  213  2-25  2-35  2-35  2-45  2-50  2-55  stabilization  RVATIONS  Temp	water Guality Water Quality Water Quality Pump Rate (Linsin.) 200 200 criteria for each VSAMPLING M ACLY ATION	102   5.49   N   N   N   N   N   N   N   N   N	Water Level (ft TIC) 2 11	Temp. (Celeius) [3%]*  10.80  15.40.61  10.54  10.49  10.62  10.71  10.77  utive readings on	Peristatic Pur Pump Type: Samples colle 3 VGT - 5 pH [0.1 units]* G-16 G-20 U-31 G-52 G-58 G-67	mp (X Grant of Grant	Turbidity (NTU) (10% or 1 NTUP	Other/Sp on? N (spec ou 2/00 DO (mg/l) [10% or 0.1 mg/l]* 22 2 9 16. 36 [2.47 8,26 4,80 3.02	ORP (mV) [10 mV]*  -36.0  -21.2  -26.4  -35.5  47.2  -55.2  -60.2

400 89p		4 . 4 .
Well No	Site/GMA Name	6-MH-3
	Sampling Personnel	D. Zuck
•	Date	5/4/08
	Weather	Summy miles

Time   300	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	p <b>H</b> [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)
,	=200	≈2.48	And the second	10.63	6.68	0.755	9	1.7>	[10 mV] -60.3
1305	~150	2.68		10-83	6.69	0.52	8	1.51	-61.5
310		2.88		11,09	6.74	0.952	10	1,40	-64
3139		3-00		10.90	6.74	0-953	8	1.37	-64.5
3168		3-12		11-06	6.75	0.951	7	1,36	-65.8
3/19	9	3.24		11.18	6.77	0.990	Š	1.32	-67.
									<del></del>
								and the same of th	
								year of the second seco	
						manufacture and the second	· ·		
				-	are and a second				
									,
				7		-(4)	1338	راط	
				and of	SWY		744		···
									<del></del>
									·
									<del></del>
	·								

* The stabilization criteria for each field parameter (three consecutive readings colle	orted at 3 to 5 minute inte	-1-22 11 2 2 2	<u> </u>	
TOTAL TOTAL SAME LING WELLOND DEVIATIONS	ooloo at 5- to 5-minute interv.	as) is listed in each	h column heading.	
Tenf High Done to Sun exposure				
		<del></del>		

Reference Point Marked?  Height of Reference Point Well Demoker  Scroen Interval Depth  1,3,1  Meas. From IIC  Required  Areafrical Presentation:  (C) Co (Stat. St)  VOCs (S	Well !	Na. <u>8</u>	40-R				2000	Mot 5			
PID Background (pyrm)  Weal Headespeace (pyrm)  Weal Headespeace (pyrm)  Weal Headespeace (pyrm)  Weal Depth  Height of Reducence Point Marked?  Sample 10  Sample 10  Sample 10  Sample 10  Sample 10  Sumple 10  Sample 10  Sumple 10  SpR Sample 10  Vota (SpL se)  Vota (SpL se)	Key I	No						2 /			
Weather Standy 7.55  Wester Table Depth 3.1 Meas. From SLS Sample 1D SAMS  Wester Table Depth 3.1 Meas. From SLS Wester Table Depth 4.1 Meas. From SLS Wester Table Depth 5.1 Meas. From SLS Wester Table Depth 6.1 Meas. From SLS Wester Table 6.1 Meas. From SLS	PID 8	lackground (j	opm) N/A		***************************************			Cur.			
WELL INFORMATION Reference Point Marked?  Height of Reference Point Marked?  N Meas. From Well Depoint Well D											
Reference Point Members 2  Height of Reference Point Members 2  Wester Table Deeph 3 11  Length of Water Calcium 465 7.77  Wester Table Control 3 11  Length of Water Calcium 465 7.77  Length of Water 7.77  Length of Wa		• • •	10/10	-		. *************************************	2460)	145		· · · · · · · · · · · · · · · · · · ·	
Reference Point Meritad?  Height of Reference Point Well Dismate Sorroes   Titlerand Depth   14.55   16 Meess. From   11.0   11.	WELL INFO	RMATION	_						1505	•	
Height of Reference Point  Well Dismoster  Screen interval Depth  Well Depth 1 7 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Refere	nce Point Mer	kad? 🕢 N	,				•		<del></del>	
Screen interval Depth 645.57 / Secul. From BLC Screen interval Depth 14.57 / Secul. From TEC Weet Depth 7.9.07 Mean. From TEC Length of Wester Colorm Weet Depth 7.9.07 Mean. From TEC Length of Wester Colorm Weet Depth 7.9.07 Mean. From TEC Length of Wester Colorm Weet Depth 7.9.07 Mean. From TEC Length of Wester Colorm Weet Depth 7.9.07 Mean. From TEC Length of Wester Colorm Weet Depth 7.9.07 Mean. From TEC Length of Wester Colorm Wester New 2.2.27 m. If no v. VOCa (Exp. list)			1/		•		•	Sample	10 44D-	K	
Screen interval Depth			11	LANGUAGE, [-	-rom	-		Duplicate	ID		
Wester Table Depth	Ser	•		> 746	- B(c			MS/M	SD		
Well Depth								Sp#t Sample	ID		
Length of Walter Column  Well 72 27 m 10 m  Voca (Still. list)  Voca (Exp. list)  Vo	•			* F F							
Voture of Water in West   Z Z Z z z   10 m   Vote (Esp. ist)	Length		. 444	72/	1100		Required	t <u>Annivit</u>	cal Parameters;	Collected	
Initiation Depth of Pump/Tubing GT Means. From TTC  SVOCs SVOCs SVOCs SVOCs PCBs (Total) Metals/Inorganics (Total) PCB (Dissolved)	_			1/2 m					, ,	( <b>/</b>	
Section   Sect				<del></del>	m TTC	,	( )	VO		( )	
PCBe (Dissolved)   Color					<u> </u>	<del></del>	(X)			( <b>七</b> )	
TIC: Top of Inner (PVC) Cashing  (C: Top of Outer (PVC) Cashing  (D: Top Outer (Discoved)  (D: Top Cashing  (Discoved)  (D: Top Cashing  (Discoved)  (D: PVC Cyclic (Discoved)  (D: PVC Cycli	Reference Pr	oint Identificati	on:				( )		•	( )	
OC: Top of Outer (Protective) Casing (IndexPGSS: Ground Surface (Clearly (IndexPGSS: Ground Surface (I							( )			( )	
Particular (Dissolved)   PAC Cyanida (Diss							( )			( )	
PAC Cyanida (Dissolved)   PAC Cyanida (Dis							( )			( )	
Pedicides/Herbicides   Pedicides/Herbicides/Herbicides   Pedicides/Herb			•				( )		· ·	( )	
Pedicide/Perticides   Pedicides   Pedi	ledevelop?	Y (N)					( )		-	( )	
VACUATION INFORMATION Pump Stept Time Pump Stept Time Pump Stept Time Minutes of Pumping Stept Time Did Well Go Dity?  Water Quality Meter Type(s) / Serial Numbers:  Time Rate Gailone (Lavel (Celalus) (Linin.) Removed (IR TIC) (T)  4 20  0 2 3  10 58  7 59  10		_								( )	
Pump Start Time Pump Start Time Whiters of Pumping Positive Type(a) / Sorial Numbers:  Pump Stort Type(b) / Sorial Numbers:  Pump Type: Pump Total Rate Gallone Lavel (Celeium) (ins/cm) (i							, ,			( )	
Pump Stept Time Pump Total Rates Gallone Level (Calebus)							, 100			(七)	
Time Rate Gallone Level (Geleius) pro Sp. Gord. Turbidity (MTU) (ms/cm) (NTU) (10% or 1 NTU) (10% or 0.1 mg/l) (ms/cm) (10% or 1 NTU) (10% or 0.1 mg/l) (10 m/c) (ms/cm) (10% or 1 NTU) (10% or 0.1 mg/l) (10 m/c)	P Minu Volume of V	Pump Start Tim Pump Stop Tim Item of Pumpin Vater Remove	1415 1540 85 4 4.000	  <u>7</u> 073	•	Peristaltic Pur	np (X s	ubmersible Pump	( ) Other/Sr	pacify ( )	
Companies   Comp	P Minu Volume of V Di	Pump Start Tim Pump Stop Tim Inter of Pumpin Vater Remove Id Well Go Dry	14(5 1540 85 9.091	-	, <u>Y6I</u>	Peristaltic Pur Pump Type: Samples colle	mp () S G-C	ubmersible Pump	( ) Other/Sp Dn? ( ) N (spec	≆ <b>f</b> y)	'S i'V :
4 15 175 3 10.58 7.84 2.514 7 11.52 -107.1 4 20 0.23 10.58 7.84 2.514 7 11.52 -107.1 4 25 0.46 10.60 7.88 2.682 5 9.69 -109.9 4 30 0.69 10.91 7.93 2.826 6 4.91 91.4 4 35 0.92 11.13 7.97 2.844 7 2.19 -99.1 4 40 1.16 11.22 8.01 7.832 6 1.69 -100.1 4 45 1.39 11.05 8.03 2.790 6 1.42 108.1 4 50 1.62 11.24 8.11 2.748 6 1.20 +102.7  **stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.  **ERVATIONS/SAMPLING METHOD DEVIATIONS**	P P Minu Volume of V Di	Pump Start Tirr Pump Stop Tirr vites of Pumpin Vater Remove id Well Go Dry Water Quality	14(5) 1540 1540 1540 1540 1740 1740 1754 1754	Serial Numbers Water	Temp.	Peristallic Pur Pump Type: Samples colle	np (X s G-c cted by same in	ubmersible Pump  20 Pump  ethod as evacuation  M/S	() Other/Sp Dn? O N (spec Hack Z	*(y) 100P To	<b></b>
10.58   7.84   2.514   7   11.52   -107.1   12.55   0.46   10.60   7.88   2.682   5   9.69   -109.9   10.91   7.93   2.826   6   14.91   91.9   14.0   1.16   11.22   8.01   7.93   2.844   7   2.19   -99.1   14.0   1.16   11.22   8.01   7.832   6   1.68   -100.1   1.65   1.39   11.05   1	P P Minu Volume of V Di	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	Heter Type(s)/S  Total Gallons	Sorial Numbers Water Level	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle	cted by same in 556	ubmersible Pump  20 Pump  ethod as evacuation  M/S  Turbidity  (NTU)	Mach Z  DO (mg/l)	100P 76.	
125	P P Minu Volume of V Di	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	Heter Type(s)/S  Total Gallons	Sorial Numbers Water Level	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle	cted by same in 556	ubmersible Pump  Of Pump  othod as evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP	Mach Z  DO (mg/l)	ORP (mV)	<b></b> /,
425 0.46 10.60 7.88 2.682 5 9.69 -107.9 430 0.69 10.91 7.93 2.826 6 4.91 91.4 435 0.92 11.13 7.97 2.844 7 2.19 -94.1 440 1.16 11.22 8.01 7.832 6 1.69 -100.1 459 1.39 11.05 6.03 7.790 6 1.42 -108.1 50 1.62 11.24 8.11 7.748 6 1.70 -102.7  stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervale) is listed in each column heading.	Minu Volume of V Di	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	Heter Type(s)/S  Total Gallons	Sorial Numbers Water Level	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle	np (X S G C cted by same m 555 C	ubmersible Pump  Of Pump  othod as evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP	Mach Z  DO (mg/l)	ORP (mV)	- \$.\ds
130	Minu Volume of V Di	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	Heter Type(s)/S  Total Gallone Removed	Sorial Numbers Water Level	Temp. (Celeius) [3%]*	Peristatic Pur Pump Type: Samples colle	np (X S G C cted by same m 555 C	ubmersible Pump  Of Pump  ethod as evacuation  Turbidity  (NTU)  [10% or 1 NTUP	Mach Z  DO (mg/l)	ORP (mV)	
(435	Minu Volume of V Di	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	Heter Type(s)/S  Total Gallone Removed	Sorial Numbers Water Level	Temp. (Coloius) [3%]*	Peristatic Pur Pump Type: Samples colle #3 pH [0.1 units]*	sp. Cond. (mS/cm) [3%]*	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP	Other/Sp DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*	- '\$.'
1.15	Minuvolume of V Di Time 4 (5) 4 20	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	Heter Type(s)/S  Total Gallone Removed	Sorial Numbers Water Level	Temp. (Celeius) [3%]*  10.5%	Peristatic Pur Pump Type: Samples colle #3 pH [0.1 units]*	sp. Cond. (mS/cm) [3%]*	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP	Other/Sp DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*	\$.\ds
1-16	Minuvolume of V Di Time 4 (5 4 20	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	Meter Type(s)/S  Total Gallone Removed  0.23	Sorial Numbers Water Level	Temp. (Celeius) [3%]*  10.5%	Peristatic Pur Pump Type: Samples colle #3  pH  j0.1 units!*  7. 8 4  7. 8 8	sp. Cond. (ms/cm) (3%)*  2.5/4  2.682	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP	Other/Sp DO (mg/f) [10% or 0.1 mg/f*]	ORP (mV) [10 mV]*	\$.:J.
1.39   1.05   6.03   2.790   6   1.42   108.1    150   1-62   11.24   6.11   2.748   6   1.20 + 102.7    stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.	Minuvolume of V Di Time 4 (5) 4 20	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	4 (5   15 40	Sorial Numbers Water Level	Temp. (Celeius) [3%]*  10.5%	Peristatic Pur Pump Type: Samples colle #3  pH  j0.1 units!*  7. 8 4  7. 8 8	sp. Cond. (ms/cm) [3%]* 2.5/4 2,682 2,826	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP	Other/Sp DO (mg/f) [10% or 0.1 mg/f*]	ORP (mV) [10 mV]*	\$.:/.
1.39   1.05   8.03   2.790   6   1.42   108.1   1.50   1.62   1.24   8.11   2.748   6   1.20   102.7   1.50	Minu Volume of V Di Time 4 (5 4 20 4 25	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	4 (5   4 (5  4 (4  4 (5  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4  4 (4  4  4 (4  4  4 ))))) )))	Sorial Numbers Water Level	Temp. (Colatum) [3%]*  10.5%  10.60  10.91	Peristatic Pur Pump Type: Samples colle #3  pH  j0.1 units!*  7.88  7.88  7.93	sp. Cond. (ms/cm) [3%]*  2.5/4  2.682  2.844	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP	Other/Sp DO (mg/f) [10% or 0.1 mg/f*]	ORP (mV) [10 mV]*	\$.\d
150 1-62 11.24 8.11 2.748 6 1.20 + 102.7 Istabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.	Minu Volume of V DI	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	4 (5   4 (5  4 (4  4 (5  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4 (4  4  4 (4  4  4 (4  4  4 ))))) )))	Sorial Numbers Water Level	Temp. (Colatum) [3%]*  10.5%  10.60  10.91	Peristatic Pur Pump Type: Samples colle #3  pH  j0.1 units!*  7.88  7.88  7.93	sp. Cond. (ms/cm) [3%]*  2.5/4  2.682  2.844	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP	Other/Sp DO (mg/f) [10% or 0.1 mg/f*]	ORP (mV) [10 mV] -107.1 -109.4 -91.4 -94.1	\$.:/.
estabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.  ERVATIONS/SAMPLING METHOD DEVIATIONS	Minu Volume of V Di Time 4 (5) 4 20 4 25	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	4 (5   15 40	Sorial Numbers Water Level	Tomp. (Coloius) [3%]*  10.58 [0.60 [0.9] [1.13 ]1.22	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.0(	sp. Cond. (ms/cm) (3%r 2.5/4 2,826 2,844 7.832	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity (NTU) [10% or 1 NTUP  3	Other/Sp DO N (spec Mach Z DO (mg/l) [10% or 0.1 mg/l]* 11.52 9.64 H 91 2.19 1.68	ORP (mV) [10 mV]*  -107.1 -109.4 -94.1 -100.1	\$.:/,
STATE OF THE PARTY	Time 4 (5) 4 20 4 30 4 35 4 40 4 75	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	4 (5   4 )))))))))))	Sorial Numbers Water Level	Tomp. (Coloius) [3%]*  10.58 [0.60 [0.8] [1.13 [1.22 [1.05]	Peristatic Pur Pump Type: Samples colle #3  pH  io.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03	sp. Cond. (ms/cm) [3%]*  2.5/4  2.682  2.844  2.832  2.790	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity (NTU) [10% or 1 NTUP  3	Other/Sp DO N (spec Mach Z DO (mg/l) [10% or 0.1 mg/l]* 11.52 9.64 H 91 2.19 1.68	ORP (mV) [10 mV]*  -107.1 -109.4 -94.1 -100.1	\$.:/,
	Time  415 420 420 430 435 440 446	Pump Start Tirr Pump Stop Tirr Intes of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate	4 (5   4 )))))))))))	Sorial Numbers Water Level	Tomp. (Coloius) [3%]*  10.58 [0.60 [0.9] [1.13 ]1.22	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.0(	sp. Cond. (Ins/cm) (3%)* 2.5/4 2.682 2.844 7.832 2.790	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity (NTU) [10% or 1 NTUP  3	Other/Sp DO N (spec Mach Z DO (mg/l) [10% or 0.1 mg/l]* 11.52 9.64 H 91 2.19 1.68	ORP (mV) [10 mV]*  -107.1 -109.4 -94.1 -100.1	\$ ::/
	Time  4 (5 4 20 4 25 4 30 4 35 4 40 4 46 4 50 9 stabilization ERVATIONS	Pump Start Tirr Pump Stop Tirr Vates of Pumpin Vates Remove id Well Go Dry Water Quality Pump Rate (L/min.)	H   H   S   H   S   H   S   S   H   S   S	Water Level (ft TIC)	Tomp. (Coloius) [3%]*  10.58  10.60  10.91  11.13  11.22  11.05  11.24	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03  6.11	Sp. Cond. (ms/cm) [3%]  2.5/9  2.682  2.844  2.832  2.746  3.746	ubmersible Pump  Of Pump  ethod an evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP  3  7  6  7  6  6	() Other/Sp Hack Z DO (mg/l) [10% or 0.1 mg/l] 1 5 2 9 - 6 9 4 9 1 2 1 9 1 - 6 9 1 - 6 9	ORP (mV) [10 mV] -107.1 -108.4 -91.4 -100.1 -108.1	\$.:J.
	Time  4 (5 4 20 4 25 4 30 4 35 4 40 4 46 4 50 9 stabilization ERVATIONS	Pump Start Tirr Pump Stop Tirr Vater of Pumpin Vater Remova id Well Go Dry  Water Quality  Pump Rate (Linein.)	H   H   S   H   S   H   S   S   H   S   S	Water Level (ft TIC)  (ft TIC)	Tomp. (Coloius) [3%]*  10.58  10.60  10.91  11.13  11.22  11.05  11.24	Peristatic Pur Pump Type: Samples colle #3  pH  j0.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03  8.11	Sp. Cond. (ms/cm) [3%]  2.5/9  2.682  2.844  2.832  2.746  3.746	ubmersible Pump  Of Pump  ethod an evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP  3  7  6  7  6  6	() Other/Sp Hack Z DO (mg/l) [10% or 0.1 mg/l] 1 5 2 9 - 6 9 4 9 1 2 1 9 1 - 6 9 1 - 6 9	ORP (mV) [10 mV] -107.1 -108.4 -91.4 -100.1 -108.1	/.
	Time  4 (5 4 20 4 25 4 30 4 35 4 40 4 46 4 50 9 stabilization ERVATIONS	Pump Start Tirr Pump Stop Tirr Vater of Pumpin Vater Remova id Well Go Dry  Water Quality  Pump Rate (Linein.)	H   H   S   H   S   H   S   S   H   S   S	Water Level (ft TIC)  (ft TIC)	Tomp. (Coloius) [3%]*  10.58  10.60  10.91  11.13  11.22  11.05  11.24	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03  6.11	Sp. Cond. (ms/cm) [3%]  2.5/9  2.682  2.844  2.832  2.746  3.746	ubmersible Pump  Of Pump  ethod an evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP  3  7  6  7  6  6	() Other/Sp Hack Z DO (mg/l) [10% or 0.1 mg/l] 1 5 2 9 - 6 9 4 9 1 2 1 9 1 - 6 9 1 - 6 9	ORP (mV) [10 mV] -107.1 -108.4 -91.4 -100.1 -108.1	/.
	Time  4 (5 4 20 4 25 4 30 4 35 4 40 4 46 4 50 9 stabilization ERVATIONS	Pump Start Tirr Pump Stop Tirr Vater of Pumpin Vater Remova id Well Go Dry  Water Quality  Pump Rate (Linein.)	H   H   S   H   S   H   S   S   H   S   S	Water Level (ft TIC)  (ft TIC)	Tomp. (Coloius) [3%]*  10.58  10.60  10.91  11.13  11.22  11.05  11.24	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03  6.11	Sp. Cond. (ms/cm) [3%]  2.5/9  2.682  2.844  2.832  2.746  3.746	ubmersible Pump  Of Pump  ethod an evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP  3  7  6  7  6  6	() Other/Sp Hack 2 DO (mg/l) [10% or 0.1 mg/l] 1 5 2 9 - 6 9 4 9 1 2 1 9 1 - 6 9 1 - 6 9	ORP (mV) [10 mV] -107.1 -108.4 -91.4 -100.1 -108.1	/.
PLE DESTINATION	Time  4 (5 4 20 4 25 4 30 4 35 4 40 4 45 4 50 9 stabilization ERVATIONS	Pump Start Tirr Pump Stop Tirr Inter of Pumpin Vater Remove Id Well Go Dry Water Quality Pump Rate (Limin.) (75	H   H   S   H   S   H   S   S   H   S   S	Water Level (ft TIC)  (ft TIC)	Tomp. (Coloius) [3%]*  10.58  10.60  10.91  11.13  11.22  11.05  11.24	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03  6.11	Sp. Cond. (ms/cm) [3%]  2.5/9  2.682  2.844  2.832  2.746  3.746	ubmersible Pump  Of Pump  ethod an evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP  3  7  6  7  6  6	() Other/Sp Hack 2 DO (mg/l) [10% or 0.1 mg/l] 1 5 2 9 - 6 9 4 9 1 2 1 9 1 - 6 9 1 - 6 9	ORP (mV) [10 mV] -107.1 -108.4 -91.4 -100.1 -108.1	
PLE DESTINATION bornstory: JGJ	Time  415 420 420 430 435 440 446 450 establishation ERVATIONS	Pump Start Tirr Pump Stop Tirr Pump Stop Tirr Vater of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate (Limin.)  (75	H   H   S   H   S   H   S   S   H   S   S	Water Level (ft TIC)  (ft TIC)	Tomp. (Coloius) [3%]*  10.58  10.60  10.91  11.13  11.22  11.05  11.24	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03  6.11	Sp. Cond. (ms/cm) [3%]  2.5/9  2.682  2.844  2.832  2.746  3.746	ubmersible Pump  Of Pump  ethod an evacuation  M/S  Turbidity  (NTU)  [10% or 1 NTUP  3  7  6  7  6  6	() Other/Sp Hack 2 DO (mg/l) [10% or 0.1 mg/l] 1 5 2 9 - 6 9 4 9 1 2 1 9 1 - 6 9 1 - 6 9	ORP (mV) [10 mV] -107.1 -108.4 -91.4 -100.1 -108.1	
PLE DESTINATION  borstory: 56 5  wed Vis: UP1	Time  415 420 420 430 435 440 446 450 establishation ERVATIONS	Pump Start Tirr Pump Stop Tirr Pump Stop Tirr Vater of Pumpin Vater Remove id Well Go Dry Water Quality Pump Rate (Limin.)  (75	H   H   S   H   S   H   S   S   H   S   S	Water Level (ft TIC)  (ft TIC)	Tomp. (Coloius) [3%]*  10.58  10.60  10.91  11.13  11.22  11.05  11.24	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03  6.11	sp. Cond. (ms/cm) [3%]*  2.5/4 2.682 2.826 2.844 2.832 2.740 2.748 iminute interval	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity (NTU) [10% or 1 NTUP  3  7  6  7  6  6  6  6  6  6  1 is listed in each of	Other/Sp 12 107 ON (spec 10% or 0.1 mg/lf 11.52 9-69 11.69 1.42 1.20 200 or 0.1 mg/lf	ORP (mV) [10 mV] -107.1 -108.4 -91.4 -100.1 -108.1	\$.J.
LE DESTINATION borstory: SG 3	Time  4 (5 4 20 4 25 4 30 4 35 4 40 4 75 4 50 stabilization ERVATIONS Pred Vis: 6	Pump Start Tirr Pump Stop Tirr Pump Stop Tirr Vater of Pumpin Vater Remove Id Well Go Dry Water Quality Pump Rate (L/min.)  (75	H   H   S   H   S   H   S   S   H   S   S	Water Level (ft TIC)  (ft TIC)	Tomp. (Coloius) [3%]*  10.58  10.60  10.91  11.13  11.22  11.05  11.24  sutive readings co	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03  6.11  illected at 3- to 5	sp. Cond. (ms/cm) [3%]*  2.5/4 2.682 2.826 2.844 2.832 2.740 2.748 iminute interval	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity (NTU) [10% or 1 NTUP  3  7  6  7  6  6  6  6  6  6  1 is listed in each of	Other/Sp 12 107 ON (spec 10% or 0.1 mg/lf 11.52 9-69 11.69 1.42 1.20 200 or 0.1 mg/lf	ORP (mV) [10 mV] -107.1 -108.4 -91.4 -100.1 -108.1	\$.J.
LE DESTINATION  NOTATION: SGS  INDICATE: UPS	Time  4 (5) 4 20 4 25 4 30 4 35 4 40 4 75 50 stabilization RVATIONS red Vis: 6	Pump Start Tirr Pump Stop Tirr Pump Stop Tirr Vater of Pumpin Vater Remove Id Well Go Dry Water Quality Pump Rate (L/min.)  (75	H   H   S   H   S   H   S   S   H   S   S	Water Level (ft TIC)  (ft TIC)	Tomp. (Coloius) [3%]*  10.58  10.60  10.91  11.13  11.22  11.05  11.24  sutive readings co	Peristatic Pur Pump Type: Samples colle #3  pH  i0.1 units!*  7.84  7.88  7.93  7.97  8.01  6.03  6.11  illected at 3- to 5	sp. Cond. (ms/cm) [3%]*  2.5/4 2.682 2.826 2.844 2.832 2.740 2.748 iminute interval	ubmersible Pump  Of Pump  ethod as evacuation  M/S  Turbidity (NTU) [10% or 1 NTUP  3  7  6  7  6  6  6  6  6  6  1 is listed in each of	Other/Sp 12 107 ON (spec 10% or 0.1 mg/lf 11.52 9-69 11.69 1.42 1.20 200 or 0.1 mg/lf	ORP (mV) [10 mV] -107.1 -108.4 -91.4 -100.1 -108.1	

Well No.	\$ 89D-R	Site/GMA Name	GMA-3.	
		Sampling Personnel	D-2016	
		Date	5/4/09	
		Weather	Suncis 65	

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]*
1463	175	1.76		11.37	8.08	2,728	5	1.16	-103.1
1456		1.90		11.20	8.08	2.722	<b>5</b>		103.1
1459		2.03		11,22	8.08	2,728 2.722 2.698	4	1.08	102,8
		er oder i i i je dega i jed	The second secon				magnetics regarded and described and the second section of the second section of the second	or conference for playable formation and	
•								and the second s	
						and the second	AN TRACTOR AND		
					and Markey Company of the Company of				
	<del></del>			, market and a	anger de land i de				
				are the second s					
			and the second second	0/1/	$\bigcap$				
			C 01	17 // [4	J 1 :	505			
			54						
					,			- <del></del>	7
			, , , , , , , , , , , , , , , , , , , ,						
	,								
•					<del></del>				
							•		

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
See Page 1 fer Sun toup issue

Well					SHAGNIA N				
Key	***************************************	r-37			suppling Person				
PID	Background (	opm)				ate <u>/</u> 3/	40		
Well	l Headepace (p	apm)				her Sun	4/08	Em. 11 13	<u> </u>
							ij trigts	- XUS CFIG	reeye
	ORMATION		<u> </u>				y Sample Ti	ime 1025	V
	once Point Med	, (	N)			r	Sample		
rieign	t of Reference ! Well Diam		Meas, F	from 9100	n		Duplicate		
Sc	reen Interval D		<del></del>	·			MS/M	so	
	Water Table D		O Moss. F Hoss. F				Spilt Sample	ID	
	Welf D		2 Mose, Fr		<u></u>	Dominio.		_	
Lengt	th of W <mark>inter</mark> Coll		51			Required		cal Parameters:	Collected
	ne of Water in \	Nell 1-87	gullons		1	( <b>X</b> )		Cs (Std. list)	(X)
rtalca Dep	ith of Pump/Tut	sing 47.5	Moss, Fr	om grow	rof	( )	VO.	Ca (Exp. list) SVOCs	( )
						( )	PC	CBs (Total)	( )
	oint Identificatio Inner (PVC) Ca					( )		s (Dissolved)	( )
	rimini (PVC) Ca FOuter (Protect					( )	Metals/II	norganics (Total)	( )
	Ground Surfac					( )	Metals/Inor	ganics (Dissolved)	( )
		•				( )		inide (Dissolved)	( )
tevelop?	Y (N)					( )		nide (Dissolved)	<b>( )</b>
	_					* ( )		DDs/PCDFs les/Herbicides	( )
						( )		i Attenuation	( )
CHATIC	N INFORMATIC	14.0				( )		r (Specify)	( <b>X</b> )
olume of \	utes of Pumpin Water Remove lid Well Go Dry! *: Water Quality	3.Z.g.	- <del></del>	. YST H		np (K) Si Scol	ubmersible Pump  Pump Z  ethod as evacuation	( ) Other/Sp on? (Ÿ) N (spec	
olume of \	Water Removed in Well Go Dry! Water Quality Pump	Meter Type(s)/:	Serial Numbers:	Temp.	Peristatic Pun Pump Type: Samples colle	np (K) Si Scol	ubmersible Pump Pump Z ethod as evacuation	( ) Other/Si	> 76-6:01
olume of \	Water Removed iid Well Go Dry: Water Quality Pump Rate	Meter Type(s) /:  Total Gailone	Serial Numbers: Water Level	Temp. (Celsium)	Peristatic Pun Pump Type: Samples collections 3 03 C	Color Same m	Turbidity (NTU)	( ) Other/S <sub>j</sub> in? (Ÿ) N (spec c. ム こいり f DO (mg/l)	:ify)
okame of \	Water Removed in Well Go Dry! Water Quality Pump	Meter Type(s) /:  Total  Gailone  Removed	Serial Numbers:	Temp.	Peristatic Pun Pump Type: Samples collection	Cted by same m	Turbidity (NTU)	( ) Other/S <sub>j</sub> on? (Ÿ) N (spec <u>に                                    </u>	ORP
okame of \	Water Removed iid Well Go Dry: Water Quality Pump Rate	Meter Type(s)/:  Total Gallone Removed  0.5%	Serial Numbers: Water Level	Temp. (Celsium)	Peristatic Pun Pump Type: Samples collections 3 03 C	cted by same m	Turbidity (NTU)	( ) Other/S <sub>j</sub> in? (Ÿ) N (spec c. ム こいり f DO (mg/l)	ORP (mV)
Dikame of \	Water Removed iid Well Go Dry: Water Quality Pump Rate	Meter Type(s) /:  Total  Gailone  Removed	Serial Numbers: Water Level	Temp. (Celsium)	Peristatic Pun Pump Type: Samples collections 3 03 C	cted by same m	Turbidity (NTU)	( ) Other/S <sub>j</sub> in? (Ÿ) N (spec c. ム こいり f DO (mg/l)	ORP (mV)
okame of \	Water Removed iid Well Go Dry: Water Quality Pump Rate	Meter Type(s) /:  Total Gailone Removed 0.59 0-79	Serial Numbers: Water Level	Temp. (Celsium)	Peristatic Pun Pump Type: Samples collections 3 03 C	cted by same m	Turbidity (NTU)	( ) Other/S <sub>j</sub> in? (Ÿ) N (spec c. ム こいり f DO (mg/l)	ORP (mV) [10 mV]*
Firme	Water Removed Hid Well Go Dry	Meter Type(s)/:  Total Gallone Removed 0.59 0.79	Serial Numbers: Water Level	Temp. (Celsium)	Peristatic Pun Pump Type: Samples collections 3 03 C	cted by same m	Turbidity (NTU) [10% or 1 NTU]	( ) Other/S <sub>j</sub> in? (Ÿ) N (spec c. ム こいり f DO (mg/l)	ORP (mV)
Firme	Water Removed iid Well Go Dry: Water Quality Pump Rate	J.Z. c. j.	Serial Numbers: Water Level	Temp. (Celsium)	Peristatic Pun Pump Type: Samples collect  3 03 C  pH  i0.1 units P  7.75  7.90  7.97	cted by same m	Turbidity (NTU)	( ) Other/S <sub>j</sub> in? (Ÿ) N (spec c. ム こいり f DO (mg/l)	ORP (mV) [10 mV]*
Firme	Water Removed Hid Well Go Dry	Meter Type(s)/:  Total Gallone Removed 0.59 0.79	Serial Numbers: Water Level	Temp. (Celsium)	Peristatic Pun Pump Type: Samples collections 3 03 C	cted by same m	Turbidity (NTU) [10% or 1 NTU]	( ) Other/S <sub>j</sub> in? (Ÿ) N (spec c. ム こいり f DO (mg/l)	ORP (mV) [10 mV]*
Firme	Water Removed Hid Well Go Dry	J.Z. c. j.	Seriel Numbers:  Water Level (ft TIC)  5.88  5.88  5.88  5.88	Temp. (Celeium) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 C  pH  i0.1 units P  7.75  7.90  7.97	cted by same m	Turbidity (NTU) [10% or 1 NTU]	( ) Other/S <sub>j</sub> in? (Ÿ) N (spec c. ム こいり f DO (mg/l)	ORP (mV) [10 mV]*
Firme	Water Removed Hid Well Go Dry	J.Z. c.	Serial Numbers: Water Level	Temp. (Celsium)	Peristatic Pun Pump Type: Samples collect  3 03 C  pH  i0.1 units P  7.75  7.90  7.97	cted by same m	Turbidity (NTU) [10% or 1 NTU]	00 other/s)  DO (mg/l)  [10% or 0.1 mg/l]  5.96  3.87  3.44  3.45  3.53	ORP (mV) [10 mV]*
Firme	Water Removed Hid Well Go Dry	J.Z.q.6   Y N	Seriel Numbers:  Water Level (ft TIC)  5.88  5.88  5.88  5.88	Temp. (Celeium) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 C  pH  i0.1 units P  7.75  7.90  7.97	cted by same m	Turbidity (NTU) [10% or 1 NTU]	( ) Other/S <sub>j</sub> in? (Ÿ) N (spec c. ム こいり f DO (mg/l)	ORP (mV) [10 mV]*
Firme 40 45 60 75 70 75 70 75 70 75	Water Removed Well Go Dry's Water Quality  Pump Rate (L/min.)  150	J-Z-q-6   Y N	Serial Numbers:  Water Level (RTIC)  5.88  5.88  5.88  5.88  5.88  5.88	Temp. (Celalum) [3%]* - 8.80 8.45 8.68 8.66 8.76 8.75 8.87	Peristatic Pun Pump Type: Samples collections 3 03 C pH i0.1 units;* 	Seo	Turbidity (NTU) [10% or 1 NTUP  23  12  12  12  13	Other/S)  on? (P) N (spector)  on (mg/l)  [10% or 0.1 mg/l)  3.87  3.44  3.45  3.45  3.64	ORP (mV) [10 mVp -/99./ -/88.7 -/93.0 -/83.5 -/82.9
Time  70 75 70 75 70 75 70 75 70 75 70 75 75 75 75 75 75 75 75 75 75 75 75 75	Water Removed Hid Well Go Dry Water Quality  Pump Rate (L/min.)  150  150  criteria for each	Total   Gallons   Removed   0.59   0.79   1.18   1.38   1.78	Serial Numbers:  Water Level (RTC)  5.88  5.88  5.88  5.88  5.88  6.88	Temp. (Celaium) [3%]*  8.80 8.45 8.68 8.66 8.76 8.75 8.75	Peristatic Pun Pump Type: Samples collect  3 03 (  pH  i0.1 units)*  7.75  7.97  7.98  7.97  1.98  7.97  Included at 3- to 5-	Seo	Turbidity (NTU) [10% or 1 NTUP  23  12  12  12  13	Other/S)  on? (P) N (spector)  on (mg/l)  [10% or 0.1 mg/l)  3.87  3.44  3.45  3.45  3.64	ORP (mV) [10 mVp -/99./ -/88.7 -/93.0 -/83.5 -/82.9
Time  70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75	Water Removed Hid Well Go Dry Water Quality  Pump Rate (L/min.)  150  150  criteria for each	J-Z-q-6   Y N	Serial Numbers:  Water Level (RTC)  5.88  5.88  5.88  5.88  5.88  6.88	Temp. (Celalum) [3%]* - 8.80 8.45 8.68 8.66 8.76 8.75 8.87	Peristatic Pun Pump Type: Samples collect  3 03 (  pH  i0.1 units)*  7.75  7.97  7.98  7.97  1.98  7.97  Included at 3- to 5-	Seo	Turbidity (NTU) [10% or 1 NTU]	Other/S)  on? (T) N (spector)  on (Mg/l)  [10% or 0.1 mg/l]  5.96  3.87  3.44  3.45  3.53  3.64  3.64  3.66  Solumn heading.	ORP (mV) [10 mV]*  -199.1  -188.7  -193.0  -183.5  -183.9  -154.3  -155.9
Time  #0  #5  50  25  10  45  abilizations  Augustions	Water Removed Hid Well Go Dry Water Quality  Pump Rate (L/mire.)  150  150  criteria for each RYSAMPLING MENT COLUMN AND	Meter Type(a)/:  Total Gallone Removed 0.59 0.79 /-18 /-38 /-78 /-78 /-98 h field peramete ETHOD DEVIA	Serial Numbers:  Water Level (RTC)  5.88  5.88  5.88  5.88  5.88  6.88	Temp. (Celaium) [3%]*  8.80 8.45 8.68 8.66 8.76 8.75 8.75	Peristatic Pun Pump Type: Samples collections 3 03 C pH i0.1 units p <sup>2</sup> 7.75 7.90 7.97 7.98 7.97 15.98 7.97	Seo	Turbidity (NTU) [10% or 1 NTUP  23  12  12  12  13	Other/S)  On? (T) N (spect S)  L 2 (D) D F  (mg/l)  [10% or 0.1 mg/l*	ORP (mv) [10 mvp -179.1 -188.7 -183.5 -182.9 -154.3 -155.9
Time  40  45  60  65  60  65  60  65  60  65  60  60	Water Removed Hid Well Go Dry's Water Quality  Pump Rate (L/min.)  150  150  150  criteria for each STAMPLING MENTY (L/min.)	J-Z-g/y N   Meter Type(s) / S   Total Gallone Removed   0.59   0.79   / 18   / 38   / 78   / 78   / 98   h field peramote   ETHOD DEVIA	Serial Numbers:  Water Level (ft TIC)  5.88  5.88  5.88  5.88  5.88  7.88  7.88	Temp. (Celatum) [3%]*   8.80  8.45  8.66  8.76  8.76  8.75  8.87  Stive readings co	Peristatic Pun Pump Type: Samples collections 3 03 C pH i0.1 units p <sup>2</sup> 7.75 7.90 7.97 7.98 7.97 15.98 7.97	19 (1) Second (1) Sp. Cond. (1) (1) Sp. Cond. (1) (1) Sp. Cond. (1) Sp.	Turbidity (NTU) [10% or 1 NTUP  23  12  12  12  13	Other/S)  On? (T) N (spect S)  L 2 (D) D F  (mg/l)  [10% or 0.1 mg/l*	ORP (mv) [10 mvp -179.1 -188.7 -183.5 -182.9 -154.3 -155.9
Time  40 45 60 65 60 65 60 65 60 65 60 60 60 60 60 60 60 60 60 60 60 60 60	Water Removed Hid Well Go Dry Water Quality  Pump Rate (L/mire.)  150  150  criteria for each RYSAMPLING MENT COLUMN AND	Meter Type(a)/:  Total Gallone Removed 0.59 0.79 /-18 /-38 /-78 /-78 /-98 h field peramete ETHOD DEVIA	Serial Numbers:  Water Level (ft TIC)  5.88  5.88  5.88  5.88  5.88  7.88  7.88	Temp. (Celatum) [3%]*   8.80  8.45  8.66  8.76  8.76  8.75  8.87  Stive readings co	Peristatic Pun Pump Type: Samples collect  3 03 (  pH  i0.1 units)  7.75  7.90  7.97  7.98  7.97  Included at 3- to 5  identical at 3- to 5  identical at 3- to 5	19 (1) Second (1) Sp. Cond. (1) (1) Sp. Cond. (1) (1) Sp. Cond. (1) Sp.	Turbidity (NTU) [10% or 1 NTUP  23  12  12  12  13	Other/S)  On? (T) N (spect S)  L 2 (D) D F  (mg/l)  [10% or 0.1 mg/l*	ORP (mv) [10 mvp -179.1 -188.7 -183.5 -182.9 -154.3 -155.9
Time  40 45 60 65 60 65 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 70 70 70 70 70 70 70 70 70 70 70 70	Water Removed Hid Well Go Dry Water Quality  Pump Rate (Limin.)  150  150  I criteria for each RAMPLING MEN Fular Control Cont	Meter Type(a)/:  Total Gallone Removed 0.59 0.79 /-18 /-38 /-78 /-78 /-98 h field peramete ETHOD DEVIA	Serial Numbers:  Water Level (ft TIC)  5.88  5.88  5.88  5.88  5.88  7.88  7.88	Temp. (Celatum) [3%]*   8.80  8.45  8.66  8.76  8.76  8.75  8.87  Stive readings co	Peristatic Pun Pump Type: Samples collect  3 03 (  pH  i0.1 units)  7.75  7.90  7.97  7.98  7.97  Included at 3- to 5  identical at 3- to 5  identical at 3- to 5	19 (1) Second (1) Sp. Cond. (1) (1) Sp. Cond. (1) (1) Sp. Cond. (1) Sp.	Turbidity (NTU) [10% or 1 NTUP  23  12  12  12  13	Other/S)  On? (T) N (spect S)  L 2 (D) D F  (mg/l)  [10% or 0.1 mg/l*	ORP (mv) [10 mvp -179.1 -188.7 -183.5 -182.9 -154.3 -155.9
Time  Fine  Fine	Water Removed Hid Well Go Dry Water Quality  Pump Rate (L/min.)  150  150  I criteria for each RAMPLING MEN Pular Autor	Meter Type(a)/:  Total Gallone Removed 0.59 0.79 /-18 /-38 /-78 /-78 /-98 h field peramete ETHOD DEVIA	Serial Numbers:  Water Level (ft TIC)  5.88  5.88  5.88  5.88  5.88  7.88  7.88	Temp. (Celatum) [3%]*   8.80  8.45  8.66  8.76  8.76  8.75  8.87  Stive readings co	Peristatic Pun Pump Type: Samples collect  3 03 (  pH  i0.1 units)  7.75  7.90  7.97  7.98  7.97  Included at 3- to 5  identical at 3- to 5  identical at 3- to 5	19 (1) Second (1) Sp. Cond. (1) (1) Sp. Cond. (1) (1) Sp. Cond. (1) Sp.	Turbidity (NTU) [10% or 1 NTUP  23  12  12  12  13	Other/S)  On? (T) N (spect S)  L 2 (D) D F  (mg/l)  [10% or 0.1 mg/l*	ORP (mv) [10 mvp -179.1 -188.7 -183.5 -182.9 -154.3 -155.9
Time  Fine  Fine	Water Removed Hid Well Go Dry Hater Quality  Pump Rate (Limin.)  150  150  I criteria for each RAMPLING MENT Pular	Meter Type(a)/:  Total Gallone Removed 0.59 0.79 /-18 /-38 /-78 /-78 /-98 h field peramete ETHOD DEVIA	Serial Numbers:  Water Level (ft TIC)  5.88  5.88  5.88  5.88  5.88  7.88  7.88	Temp. (Celatum) [3%]*   8.80  8.45  8.66  8.76  8.76  8.75  8.87  Stive readings co	Peristatic Pun Pump Type: Samples collect  3 03 (  pH  i0.1 units)  7.75  7.90  7.97  7.98  7.97  Included at 3- to 5  identical at 3- to 5  identical at 3- to 5	19 (1) Second (1) Sp. Cond. (1) (1) Sp. Cond. (1) (1) Sp. Cond. (1) Sp.	Turbidity (NTU) [10% or 1 NTUP  23  12  12  12  13	Other/S)  On? (T) N (spect S)  L 2 (D) D F  (mg/l)  [10% or 0.1 mg/l*	ORP (mv) [10 mvp -179.1 -188.7 -183.5 -182.9 -154.3 -155.9
Time  40  45  60  65  60  65  60  65  60  65  60  60	Water Removed Hid Well Go Dry Water Quality  Pump Rate (Limin.)  150  150  150  I criteria for each SAMPLING MENT Public	Meter Type(a)/:  Total Gallone Removed 0.59 0.79 /-18 /-38 /-78 /-78 /-98 h field peramete ETHOD DEVIA	Serial Numbers:  Water Level (ft TIC)  5.88  5.88  5.88  5.88  5.88  7.88  7.88	Temp. (Celahun) [3%]*  8.80 8.45 8.66 8.76 8.76 8.87  Ither rendings co	Peristatic Pun Pump Type: Samples collect  3 03 (  pH  i0.1 units)  7.75  7.90  7.97  7.98  7.97  Included at 3- to 5  identical at 3- to 5  identical at 3- to 5	19 (A) Second (MS/em) [3%]"	Turbidity (NTU) [10% or 1 NTUP  23  12  12  12  13	Other/S)  On? (T) N (spect S)  L 2 (D) D F  (mg/l)  [10% or 0.1 mg/l*	ORP (mv) [10 mvp -179.1 -188.7 -183.5 -182.9 -154.3 -155.9

WELL INFORM	AATION - See	Page 1			ite/GMA Name ling Personnel Date Weather		3 HOB Hogh	50s I f	Bre
Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	p <b>H</b> [0.1 units]*	Sp. Cond. (mS/cm)	Turbidity (NTU)	DQ (mg/l)	OR (m)
1020	150	2.18	5.88	8.95	7.96	0,424	10% or 1 NTU)	[10% or 0.1 mg/i]*	[10 m
1025	150	2.37	5.88	8.86	7.99	0,428	10	3.66-	152 157
	San	pled	@ /	025			·		
			₹/						
					-				
								Million of Property of	
į.									<del></del>
									······································

OBSEDVATIONS CANDING	solution (causings collected at 3- to 3-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATION	S

Well N Kay N				سماو	makey Person	mi kic.			
	ckground (pp	m) —			npling Personn Da		14/08		
	iendispaca (ppi			<del></del>	Weath		7	12	<del>†                                      </del>
		,			***************************************	- 2/5	, sonny	(parly	<del>)</del>
WELL INFO	RMATION						Sample Tim	1030	· -
	nce Point Marke	d? (P) N				t	Sample I		) )B
	of Reference Po		Meas. From	m Graza	<u> </u>		Duplicate I		<i>7</i> .S
•	Well Diame						MS/MS		· · · · · · · · · · · · · · · · · · ·
Scre	en interval De		Meas, Fro	m Grain	De .		Spilt Sample II		
٧	Vater Table Dep	th (0,70		m TIC			Opm Outlings	<u> </u>	<del></del>
	Well Dep	th 12.6°	Z Meas. From	m TIC.		Required	Analytic	al Parameters:	Collected
	of Water Colum		-			( <b>X</b> )		is (Std. list)	( <b>X</b> )
Volum	e of Water in W	on 0.980	dem.	_		( 3	,	s (Exp. list)	( )
intake Depti	h of Pump/Tubi	<u>'0/ بہ</u> وہ	Meas, From	m TIC		( )		SVOCs	( )
						( )	PCI	Bs (Total)	( )
	ant Identification					( )	PCB <sub>8</sub>	(Dissolved)	( )
· ·	nner (PVC) Cas	•				( )	Metals/Inc	organics (Total)	( )
•	Outer (Protectiv					( )	Metals/Inorg	anics (Dissolved)	( )
Grade/BGS:	Ground Surface					( )	EPA Cyar	nide (Dissolved)	( )
Redevelop?	v 🖒					( )	•	ide (Dissolved)	( )
/enevelop?	Y (N)	•				( )		Ds/PCDFs	( )
						( )		es/Herbicides	( )
						$\langle X \rangle$		Attenuation	( <b>X</b> )
VACUATION	INFORMATIO	M				( )	Other	r (Specify)	( )
Minu Volume of V	Pump Start Time Pump Stop Time utes of Pumping Water Removed iid Well Go Dry'i	1105				mp (X) Su GOOT	Bladder in the bladde		pecify ( )
Minu Volume of V	Pump Stop Time utes of Pumping Water Removed hid Well Go Dry'i	1105 100 4.091		Y51-5	Peristatic Pur Pump Type:	mp (X) Su COT octed by same me	obmersible Pump	Other/S <sub>i</sub>	≆y)
Minu Volume of V	Pump Stop Time utes of Pumping Water Removed hid Well Go Dry'i	1105 100 4.091	llons	<i>YS/−S</i> ∵	Peristattic Pur Pump Type: Samples colle	mp (X) Su COT octed by same me	obmersible Pump	n? () Other/Si	≆y)
Minu Volume of V	Pump Stop Time utes of Pumping Water Removed iid Well Go Dry? Water Quality Pump Rate	// 05 / 00 / 4.0 g/A Y No			Peristaltic Pur Pump Type: Samples colle	mp (X) Su  Collination  Collination  Collination  Hall  Hall	athod as evacuation	Other/Sp	uter
Minu Volume of V	Pump Stop Time utes of Pumping Water Removed id Well Go Dry's Water Quality Pump Rate (Limin.)	// 05 // 1/00	!!! ひいよ Serial Numbers: Water	Temp.	Peristaltic Pur Pump Type: Samples colle	mp (X) Su Cond.	binersible Pump  COMP  Sthod as evacuation  COOP  Turbidity	n? (A N (spec	ORP (mV)
Minu Volume of V	Pump Stop Time utes of Pumping Water Removed iid Well Go Dry? Water Quality Pump Rate	// O gu. Y N  Wester Type(s) /:  Gallone Removed	Serial Numbers:  Water Level	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle 56 MPJ pH	mp (X) Su  Grant Mac M  Sp. Cond.  (ms/cm)	Turbidity (NTU)	Other/S n? ② N (spec 「ムータ」:ノンハ DO (mg/l)	ORP (mV)
Volume of V	Pump Stop Time utes of Pumping Water Removed id Well Go Dry's Water Quality Pump Rate (Limin.)	// O gra Y N Wester Type(s)/:	Serial Numbers:  Water Level (RTIC)	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle 56 MPJ pH	mp (X) Su  GOT  acted by same me  Ha e L  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU)	Other/S n? ② N (spec 「ムータ」:ノンハ DO (mg/l)	ORP (mV)
Minn Volume of V D  Time	Pump Stop Time utes of Pumping Water Removed id Well Go Dry  Water Quality  Pump Rate (L/min.)  / 50	Vester Type(s)/:  Total Gallone Removed O.08	Serial Numbers:  Water Level (ft TIG)  7, 03	Temp. (Celaius) [3%]*	Peristatic Pur Pump Type: Samples colle 56 MPJ  pH  (0.1 units)*	mp (X) Su  GOT  acted by same me  Ha e L  Sp. Cond.  (mS/cm)  [3%]*	Turbidity [10% or 1 NTU]	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
Volume of V D Time	Pump Stop Time utes of Pumping Nater Removed id Well Go Dry/ Water Quality  Pump Rate (Limin.)  / 50  / 50	Vector Type(s)/3  Total Gailone Removed  O. 08  O. 20	Serial Numbers:  Water Level (ft TIC)  7.03  7.03	Temp. (Celaius) [3%]*	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  [0.1 units]*	Sp. Cond. (ms/cm) (3%)	Turbidity (NTU)	Other/S n? ② N (spec 「ムータ」:ノンハ DO (mg/l)	ORP (maV) [10 mV]*
Time  2927  0930  0940	Pump Stop Time utes of Pumping Water Removed ind Well Go Dry/i Water Quality Pump Rate (L/min.) / 50 / 50	1105   100   4.0 g/s. Y   N   100	Serial Numbers:  Water Level (ft TIG)  7, 03	Temp. (Celaius) [3%]*	Peristatic Pur Pump Type: Samples colle 56 MPJ  pH  (0.1 units)*	mp (X) Su  GOT  acted by same me  Ha e L  Sp. Cond.  (mS/cm)  [3%]*	Turbidity [10% or 1 NTU]	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
Volume of V D Time	Pump Stop Time utes of Pumping Nater Removed id Well Go Dry/ Water Quality  Pump Rate (L/min.)  / 50  / 50  / 50	7/05 7/00 4.0 g/A Y R Wester Type(s)/: Total Gallone Removed 0.08 0.20 0.40 0.40 0.66		Temp. (Celaius) [3%]*	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  [0.1 units]*	Sp. Cond. (ms/cm) (3%)	thmersible Pump  COMP  Sthod as evacuation  COOP 7  Turbidity (NTU) [10% or 1 NTU]  47  18  11  11	1) Other/S  n? (2) N (spector)  DO (mg/l)  [10% or 0.1 mg/l]	ORP (maV) [10 mV]*
Time  0935 0940	Pump Stop Time utes of Pumping Water Removed ind Well Go Dry/i Water Quality Pump Rate (L/min.) / 50 / 50	1105   100   4.0 g/s. Y   N   100		Temp. (Celaius) [3%]*	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  (0.1 units)*	Sp. Cond. (ms/cm) (3%)*  O.290	Turbidity [10% or 1 NTU]	1) Other/S  n? (2) N (spector)  DO (mg/l)  [10% or 0.1 mg/l]	ORP (mv) [10 mv]*  -3.3  -5.8  -10.8
Time  0927 0930 0935 0940 0945	Pump Stop Time utes of Pumping Nater Removed id Well Go Dry/ Water Quality  Pump Rate (L/min.)  / 50  / 50  / 50	7/05 7/00 4.0 g/A Y R Wester Type(s)/: Total Gallone Removed 0.08 0.20 0.40 0.40 0.66	(n)	Temp. (Celsius) [3%]*  -  (6.82 (6.89  7.26  7.13	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  (0.1 units)*  6.58  6.65  6.65  6.66	mp (X) Su Gelg inted by same me Hach  Sp. Cond. (mS/cm) [3%]*  O.290  O.297  O.294  O.284	Turbidity (NTU) [10% or 1 NTU]*  18  11  15	1) Other/S  n? O N (spectrum)  DO (mg/l)  [10% or 0.1 mg/l]   3. 28  2. (e)  1. 57  1. 28	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8
Time  2927 2930 2935 2940 2945 950	Pump Stop Time utes of Pumping Water Removed id Well Go Dry/i  Water Quality  Pump Rate (Limin.)  / 50  / 50  / 50  / 50	700 4.0 gn. Y N Wester Type(s)/S Total Gallons Removed 0.08 0.20 0.40 0.66 0.86 1.06		Temp. (Colaius) [3%]*	Peristatic Pur Pump Type: Samples colle 56 MPJ  pH  (0.1 units)  6.58  6.65  6.65  6.66  6.66	(N) Su Garage (N) Superior (N)	Turbidity (NTU) (10% or 1 NTU) (16% or 1 NTU) (173 (11	1.18	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8  -13.2  -14.6
Time  2927  0930  0935  0940  0945  950  0955  0000	Pump Stop Time utes of Pumping Water Removed ind Well Go Dryi  Water Quality  Pump Rate (Limin.)  / 50  / 50  / 50  / 50  / 50  / 50  / 50	1105 100 4.0 gu. Y N Wester Type(s)/: Total Galione Removed 0.08 0.20 0.40 0.66 0.86 1.06 1.26 1.76	(n)	Temp. (Colaium) [3%]*  -  6.82 6.89  7.26 7.13 7.36 7.47	Peristatic Pur Pump Type: Samples colle 56 MPJ  pH  i0.1 units*  6.58  6.65  6.65  6.66  6.69  6.71	(N) Su George (N) Superior (N)	Turbidity (NTU) (10% or 1 NTU)  7  10  7  11  7  12  11  7  12  11  7  12	1. 18 1. 08	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8
Time  0927 0930 0935 0940 0945 955 0955 0000 he stabilizatio	Pump Stop Time utes of Pumping Water Removed id Well Go Dry's  Water Quality  Pump Rate (Limin.)  / 50	7/05 7/00 4.0 g/s. Y N  Wester Type(s)/:  Total Gallone Removed 0.08 0.20 0.40 0.66 1.06 1.06 1.76 1.76 ch field paramet	(n)	Temp. (Colaium) [3%]*  -  6.82 6.89  7.26 7.13 7.36 7.47	Peristatic Pur Pump Type: Samples colle 56 MPJ  pH  i0.1 units*  6.58  6.65  6.65  6.66  6.69  6.71	(N) Su George (N) Superior (N)	Turbidity (NTU) (10% or 1 NTU) (16% or 1 NTU) (173 (11	1. 18 1. 08	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8  -13.2  -14.6
Time  0927 0930 0935 0940 0945 955 0000 The stabilization	Pump Stop Time utes of Pumping Water Removed id Well Go Dry's  Water Quality  Pump Rate (Limin.)  / 50	JIOS JOO 4.0 91A Y NO Wester Type(s)/3 Total Gallone Removed O.08 O.20 O.40 O.66 J.06 J.06 J.76 J.76 J.76 Driffeld paramete	Serial Numbers:  Water Lavel (ft TIC)  7,03  7,03  7,05  6,99  6,99  6,99  6,99  6,99  6,99	Temp. (Celsius) [3%]*  (6.82 (6.89  7.26  3.13  3.10  3.14   4.14  -	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  [0.1 units]*  6.58  6.65  6.65  6.65  6.69  6.71  collected at 3- to	(N) Su George (N) Superior (N)	Turbidity (NTU) (10% or 1 NTU)  7  10  7  11  7  12  11  7  12  11  7  12	1. 18 1. 08	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8  -13.2  -14.6
Min Volume of V D D D D D D D D D D D D D D D D D D	Pump Stop Time utes of Pumping Water Removed ind Well Go Dry/ Water Quality  Pump Rate (L/min.)  / 50	JIOS JOO 4.0 91A Y NO Wester Type(s)/3 Total Gallone Removed O.08 O.20 O.40 O.66 J.06 J.06 J.76 J.76 J.76 Driffeld paramete	Serial Numbers:  Water Level (ft Tic)  7.03  7.03  7.05  6.99  6.99  6.99  er (three consec	Temp. (Colaius) [3%]*	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  (0.1 units)* 6.58 6.65 6.65 6.65 6.66 6.69 6.69 6.71 collected at 3- to	(ms/cm) (3%)*  0.290  0.290  0.284  0.282  0.281  5-minute interval	thmersible Pump  COMP  Sthod as evacuation  COOP 7  Turbidity (NTU)  10% or 1 NTUP  47  18  11	1. 18 1. 08	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8  -13.2  -14.6
Time  0927 0930 0935 0940 0945 955 0000 The stabilization	Pump Stop Time utes of Pumping Water Removed ind Well Go Dry/ Water Quality  Pump Rate (L/min.)  / 50	Vector Type(s)/:  Vector Type(s)/:  Total Galione Removed  0.08  0.20  0.40  0.66  1.06  1.26  1.26  1.46  ch field paramete  WETHOD DEVIA	Serial Numbers:  Water Level (ft Tic)  7.03  7.05  6.99  6.99  6.97  6.99  er (three consecutions	Temp. (Colaius) [3%]*  -  6.82  6.87  7.26  7.36  7.36  7.47  utive readings of College Corone	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  (0.1 units)* 6.58 6.65 6.65 6.65 6.66 6.69 6.69 6.71 collected at 3- to	(N) Su George (N) Superior (N)	thmersible Pump  COMP  Sthod as evacuation  COOP 7  Turbidity (NTU)  10% or 1 NTUP  47  18  11	1. 18 1. 08	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8  -13.2  -14.6  -16.7
Min Volume of V D D D D D D D D D D D D D D D D D D	Pump Stop Time tutes of Pumping Water Removed Ind Well Go Dry/ Water Quality  Pump Rate (L/min.)  / 50	Meter Type(s)/:  Y No  Wester Type(s)/:  Total Galione Removed  O. 20  O. 40  O. 66  O. 86  I. 06  I. 76  I	Serial Numbers:  Water Level (ft Tic)  7.03  7.03  7.05  6.99  6.99  6.99  er (three consec	Temp. (Colaius) [3%]*  -  6.82  6.87  7.26  7.36  7.36  7.47  utive readings of College Corone	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  (0.1 units)* 6.58 6.65 6.65 6.65 6.66 6.69 6.69 6.71 collected at 3- to	(ms/cm) (3%)*  0.290  0.290  0.284  0.282  0.281  5-minute interval	thmersible Pump  COMP  Sthod as evacuation  COOP 7  Turbidity (NTU)  10% or 1 NTUP  47  18  11	1.18 1.08 column heading.	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8  -14.6  -16.7
Time  O927  O930  0935  0940  0945  0956  0000  The stabilization  SERVATION  SIFIC  PUBLIC  MPLE DESTI	Pump Stop Time utes of Pumping Water Removed ind Well Go Dry/ Water Quality  Pump Rate (L/min.)  / 50  / 50  / 50  / 50  / 50  / 50  / 50  / 50  I 50	Vector Type(s)/:  Vector Type(s)/:  Total Galione Removed  0.08  0.20  0.40  0.66  1.06  1.26  1.26  1.46  ch field paramete  WETHOD DEVIA	Serial Numbers:  Water Level (ft Tic)  7.03  7.05  6.99  6.99  6.97  6.99  er (three consecutions	Temp. (Colaius) [3%]*  -  6.82  6.87  7.26  7.36  7.36  7.47  utive readings of College Corone	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  (0.1 units)* 6.58 6.65 6.65 6.65 6.66 6.69 6.69 6.71 collected at 3- to	(ms/cm) (3%)*  0.290  0.290  0.284  0.282  0.281  5-minute interval	thmersible Pump  COMP  Sthod as evacuation  COOP 7  Turbidity (NTU)  10% or 1 NTUP  47  18  11	1.18 1.08 column heading.	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8  -14.6  -16.7
Time  C927  O930  0935  0940  0945  9550  0955  0000  he stabilization  SERVATION  OUD  Laboratory:  Laboratory:	Pump Stop Time utes of Pumping Water Removed ind Well Go Dryi Water Quality  Pump Rate (Limin.)  / 50  / 50  / 50  / 50  / 50  / 50  / 50  / 50  / 50  RATION  SG S	Vector Type(s)/:  Vector Type(s)/:  Total Galione Removed  0.08  0.20  0.40  0.66  1.06  1.26  1.26  1.46  ch field paramete  WETHOD DEVIA	Serial Numbers:  Water Level (ft Tic)  7.03  7.05  6.99  6.99  6.97  6.99  er (three consecutions	Temp. (Colaius) [3%]*  -  6.82  6.87  7.26  7.36  7.36  7.47  utive readings of College Corone	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  (0.1 units)* 6.58 6.65 6.65 6.65 6.66 6.69 6.69 6.71 collected at 3- to	(ms/cm) (3%)*  0.290  0.290  0.284  0.282  0.281  5-minute interval	thmersible Pump  COMP  Sthod as evacuation  COOP 7  Turbidity (NTU)  10% or 1 NTUP  47  18  11	1.18 1.08 column heading.	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8  -14.6  -16.7
Min Volume of V D D D D D D D D D D D D D D D D D D	Pump Stop Time utes of Pumping Water Removed ind Well Go Dryi Water Quality  Pump Rate (Limin.)  / 50  / 50  / 50  / 50  / 50  / 50  / 50  / 50  / 50  RATION  SG S	Vector Type(s)/:  Vector Type(s)/:  Total Galione Removed  0.08  0.20  0.40  0.66  1.06  1.26  1.26  1.46  ch field paramete  WETHOD DEVIA	Serial Numbers:  Water Level (ft Tic)  7.03  7.05  6.99  6.99  6.97  6.99  er (three consecutions	Temp. (Celsius) [3%]*  - (6.82 (6.89  7.26 7.13 7.36 7.14  utive readings of Colorone	Peristatic Pur Pump Type: Samples colle S6 MPJ  pH  (0.1 units)* 6.58 6.65 6.65 6.65 6.66 6.69 6.69 6.71 collected at 3- to	(ms/cm) (ms/cm	thmersible Pump  COMP  Sthod as evacuation  COOP 7  Turbidity (NTU)  10% or 1 NTUP  47  18  11	1.18 1.08 column heading.	ORP (mV) [10 mV]*  -3.3  -5.8  -10.8  -14.6  -16.7

,	Well No.	90	B		S	ite/GMA Name	GMA3	GE PIH	s Reld	
					Samp	ing Personne Date	KIC			
				•		Weather		Sunny		
	WELL INFOR	MATION - See	Dane 1					Lounny		
		·	7	1	<del></del>					
	Time	Pump Rate	Total Gallons	Water Level	Temp.	рH	Sp. Cond.	Turbidity	DO	0
		(L/min.)	Removed	(ft TIC)	(Celsius) [3%]*	[0.1 units]*	(mS/cm) [3%]*	(NTU)	(mg/l)	(n
	1005	150	1.65	6,99	7137	10,74	0.281	[10% or 1 NTU]*	\	
	1010	150	1.85	6,99	7,46	6,82		2	0.96	-13
	1015	150	2.05	6,99	7,33	10.91	0.781	2	0.92	- 19
3	1020	150	2.17	6.99	7,43	6.95	0.280	1	0.91	-18
·	1091	150	2.29	6,99	7,62	7,04	0.279	1	0.90	-88
	1024	150	2.41	6,99	7,48	FOIF	0.279	2	0.85	-89
	1027	150	2.53	6.99	7,42	7,10	0,239	こ	0.85	-10
79	9030-		L	Scon	nted	QH	220		0100	10
ı	1030	150	2.64	6,99	7,37	7.11	0.280		0.00	
	1033	150	2.76	6,99	7,42	7,15		2	0.85	-113
	1036			<del>_</del>	Sam	51.5			0.84	- 116
ı						proc		636		
ı										
t						· · · · · · · · · · · · · · · · · · ·				
ŀ		-								
F										
ŀ										
┢										
-										
$\vdash$										
-										
L										
L										
L										
L										
								<del></del>		
Γ										
- 1	ſ							is listed in each co		

	0	~ 1							
· WA	ell No	5 A-			Du mara	·	U/12		
К	y No.	-X-37	~ <del>~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>		SHO/GMA N		MAD		
PH	D Background	(new)			Sampling Perso		C/, RAP	2	
	ell Headepace					Date	14/08		
•	an memerapaca	(bbw)			. Wes	ther Ju	mi Bro	ezu 709	
18.000							327	29 00	)
	FORMATION						Communication	- 1721	
Refi	erence Point Me	wked? Y	N				Sample '		
Heig	ht of Reference	Point 1,5	Mean I	-mm 0 001	and .	·	Samp		
	Well Dig	meter 1.36	3/	From GIOU	UTLU		Duplicat	- Cl ex	
:	Screen Interval	-	57				MSA	ASD	
	Water Table !		- MORE. (				Sp#t Sampl	o D ema	
	Well		Meas, F	-			-		
l an			82 Moss, F	rom _//_		Require	d Anak	tical Parameters:	Callanta
	gth of Water Co					(X)		OCs (Ski, list)	Collected
	ume of Water in	Well /- 80	galloni	_		( 3		, ,	( <b>X</b> )
HITCHICAL CH	epth of Pump/Ti	Ibing 4+	Moss. Fr	rom Grouns	J	ز 😿 ن	VC	Ca (Exp. list)	( )
						, <b>x</b> (	_	SVOC.	( <b>X</b> )
	Point Identificat					( )		CBs (Total)	( )
	f Inner (PVC) C					( )		3s (Dissolved)	( )
TOC: Top	of Outer (Protec	tive) Casing				( )		Inorganics (Total)	( )
Grade/BGS	: Ground Surfa	ica				( )	Motals/inc	rganics (Dissolved)	( )
		•				( )		anida (Dissolved)	, ,
Redevelop	7 Y (N)					( )		anide (Dissolved)	, ,
		•				( )		DDs/PCDFs	( )
						( )		des/Herbicides	,
						( <b>)X</b> ()		al Attenuation	( )
EVACUATION									(X)
EVACUATE	ON INFORMATI	15///				, ,	Our	er (Specify)	( )
	Pump Start Tir	- Indiana de la company							
	Pump Stop Tin	ne 1745		<b>\$</b>	Evacuation M	lathest D.V.		situat	
	nutes of Pumpi				Peristallic Pul		. ,		
Volume of	f Water Remove	5.00	lons			AF 1	ubmersible Pump	( ) Other/Sp	pecify ( )
	Did Well Go Dn	PY OD	Name of the		Pump Type:	Geopung	<u> </u>		
	•				samples colle	octed by same in	ethod as evacuati	on? 🕜 N (spec	ify)
	Water Quality	Meter Type(s) /	Serial Mumbana	YSTHE	3 12/1	1/1/1 1 17	- 11 1 7	· ·	**
		· >p = (=).		1010	000	761 131	Hoch /	whitemen	2100P
	Pump	Total	Water	7	<del></del>	Ţ.	· · · · · · · · · · · · · · · · · · ·		
Time	Rate	Gallone	Level	Temp.	рH	Sp. Cond.	Turbidity	DO	ORP
	(L/min.)	Removed	1	(Coleius)		(mS/cm)	(NTU)	(mg/l)	(mV)
ILIEN			(R TIC)	[3%]-	[0.1 units]*	[3%]*	[10% or 1 NTU]*		[10 mVP
1770	150	0.40	9605	136	1		110	1	11011101
1555	150			12/1/2	0111		70		1
11 15	1120	0.60		113,47	1 <i>X. 4 I</i>	0.257	<i>2</i> 2	1292	1 22/2
1600 -	150	0.80	12 21	12 19	0 70	2 220	<del> </del>	0,10	2010
11 25	10-	1	12.00	13/1	10.67	0,239	32	1264	-2124
1600	100	0.93	13.44	12.84	8.16	0.237	19	100	$\frac{\omega_{1}\omega_{*}}{\omega_{1}\omega_{*}}$
16/10	150		10 25		0,10		W /	1.75	2104
11 11	1,0,0	1.12	1300	12.98	8.00	0.236	26	151	-/70
615	1 1	1.32	13 KK	1297	7711		CX CD	1001	-1100
170			1202	(X,O7)	T.T4	0.251	20	1.34	-166.5
600 U		1.52	13.68	12 9/2	7721	0.259	12	120	111
625	7	-,-		13 011	<del>51131</del>	1,00 J	67	1.00	-111.6
277		1.72		12.94	7.6+ V	2.263	77	1.27	
re stabilizatio	rı criteria for eac	ch field paramete	r (three consecu	tive readings ~	Inched at 2. to 5		) is listed in each o	1066	119.6
SERVATION	S/SAMPLING A	METHOD DEVIAT	DONS	YST /	11	TITITUMO INTERVAIS	is listed in each o	column heading.	
. /				1	tooked a	p (9) 155		ce axiter	H wellow
		rotrcoaple	SOUNT,	1/010	Moude	cell sho	0 0 1 7		/ //
15conn	REICH S	IST @ 10	025 du	e to high	e tubic	detra	10 /	emina (O)	np effects
						7			
				<del></del>		-//			
						v			
PLE DESTR	VATION								
aboratory:	505								
IPLE DESTINATION AND ADDRESS OF THE PROPERTY O	SBS UPS								
aboratory:	SBS UPS			<b>5</b> 22.	id Sameton				_
aboratory: wered Vis:	SBS UPS			Fie	id Sampling Co	pordinator:	Lung	Dr	
aboratory: rened Vis:	SBS UPS			Fie	vid Sampling Co	oordinator:	Lung		

Well No. <u>95A</u>	Site/GMA Name	GHA 3
	Sampling Personnel	KLC IRAB
	Date	5/14/08
	Weather	Partly Sumy mid 705

Time	1	ump Rate /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]*
1630	15	0	1.92	13.88	_	_		57	17070 01 0:1 11191	[10 11(4)
1633			204		_	~	_	48		
1636			2.16			-		39		
1640			2.32	14.09	13.23	7.54	0,279	34	3.80	-132.3
1645		,	2.52	14.15	12.55	7.60	0.280	25	2.82	-146.6
1650	15	0	2.72	14.22	12.79	7.64	0.278	25	1.75	-134.8
1655			2.91	14.30	12.64	7.65	0.278	23	1.27	-141.8
1700			3.11	14.33	12.59	7.64	0.279	24	1018	-137.2
1703			3-23	14.37	12.40	7.64	0.279	22	1.12	-144.2
1706			3.35		12.35	7.64	0.280	19	1011	-149.8
1709			3.47	14.39	12.29	7.63	0,280	21	1.09	-145.6
1712			3.59	14,41	12,27	7.63	0.280	16	1.04	-140,Z
1715			3.70	14,44	12.13	7.63	0.280	19	1.03	-146.9
1718			3.82	14.45	12.23	7.63	0.280	19	1.02	-14/01
1721	1		3.94	14.45	12.30	7.63	0.280	20	1.01	-139.4
	· · · · · · · · · · · · · · · · · · ·								7.0	701
										,
			Sang)	led C	172	/				
						1				
				-						
							<del></del>			

* The stabilization criteria for each field parameter (three con OBSERVATIONS/SAMPLING METHOD DEVIATIONS	secutive readings collected at 3- to 5-minute intervals) is listed in each column heading. $Reconnected + 95T - 9/636$

Well INFO Refere Height Scr	Ro. Background ( Headspace ( FORMATION rence Point Mei t of Reference Well Disc Water Table D Well D th of Water Col me of Water in	ppm) $O$ riced? $\overrightarrow{Y}$ Point $\overrightarrow{T}$ $Z$ .  The star $Z^{(1)}$ Depth $Z^{(1)}$ $Z^{(1)}$	N	And Andreas		onnel <u>GAR</u> Date <u>5/8</u> Wher <u>Most</u>	108 My closely	11 /6MA	
Well_LINFO Refere Height Scr	Il Hendapace ( CORMATION Innos Point Mai It of Reference Well Diar Creen Interval D Water Table D Well D Ith of Water Col Ime of Water in	ppm) $O$ riced? $\overrightarrow{Y}$ Point $\overrightarrow{T}$ $Z$ .  The star $Z^{(1)}$ Depth $Z^{(1)}$ $Z^{(1)}$	N		•	Date 5/8	ly closely	x, 70°F	
WELL INFO Refere Height Scr Lengti Volum	CORMATION rence Point Mei t of Reference Well Dier creen Interval D Water Table D well D th of Water Col me of Water in	rited? $\bigcirc$ Point $\ne$ Z. meter $\bigcirc$	N				ly closely	v, 700F	
Refere Height Sar Lengt Volum	rence Point Mei et of Reference Well Dier creen Interval D Well D Well D th of Water Co me of Water in	Point $\frac{1}{2}$ .  The point $\frac{1}{2}$ and	N .				/ /	-	<del></del>
Refere Height Sar Lengt Volum	rence Point Mei et of Reference Well Dier creen Interval D Well D Well D th of Water Co me of Water in	Point $\frac{1}{2}$ .  The point $\frac{1}{2}$ and	N ·				C		
Height Scr Lengt Volum	nt of Reference Well Diam creen Interval D Water Table D Well D th of Water Col me of Water in	Point $\frac{1}{2}$ .  The point $\frac{1}{2}$ and	N				⇒empe	Time 15:20	)
Scr Lengt Volum	Wolf Diar creen interval E Water Table D Welf D th of Water Col me of Water in	Depth 3 1 - 1		6-0	,	f		10 958-	
Length Volum	ereen interval E Water Table D Well D th of Water Col me of Water in	Septh 3 1 - 1	Weas.	From Grow	<u>حرا</u>		Duplica		
Length Volum	Water Table D Well D th of Water Col me of Water in		3 Moss. F	rom Grou	.1		MSA	msd <u>Collect</u>	ed He
Lengti Volum	Well D th of Water Col me of Water in	/BRZBT ~		nom TIC	<u>~0'</u>		Sp#t Samp	6 ID	
Volum	me of Water in			rom TIL		Require	d a		
			'o '			( <b>X</b> )		viical Parameters: OCs (Std. list)	Coll
intake Depl	oth of Pump/Tu		gallon s			( ) 3		OCs (Exp. list)	<b>(</b> )
		bing 9.7	Moss, F	rom TIC	<del></del>	(X)		SVOC.	( )
eference Dr	oint Identificati					( )	F	CBs (Total)	(
	inner (PVC) Ca					( )	PC	Bs (Dissolved)	(
	f Outer (Protect	-				( )		/Inorganics (Total)	(
	Ground Surfac	, .				( )		organics (Dissolved)	(
						( )		yanida (Dissolved)	(
edevelop?	Y	•				( )		ranide (Dissolved) DDs/PCDFs	(
						( )		:ides/Herbicides	(
						ivi		ral Attenuation	(
p Minu Volume of V Di	Pump Stop Tim outes of Pumpin Water Remove Did Well Go Dry	74:10 17:10 19 180 18 4.75		: <u>Ys1 ~5~</u>		$(mp \ X)$ some $(mp \ X)$ some $(mp \ X)$	Ott  ( ) Bladds  (ubmersible Pump  (A M P Z  edhod as evecuet	or Pump ( ) o ( ) Other/ston?  N (specify)	••
P P Minu Volume of V Di	Pump Start Tiry Pump Stop Tirr sutes of Pumpin Water Remova Did Well Go Dry	74:10 17:10 19 180 18 4.75	sellons	- /51-5.	Peristatic Pu Pump Type: Samples coll	Method: Bailer Imp (X) s Geo P ected by same n	Oth  ( ) Bladde Submersäble Pump  (A M p Z nethod as evacuat	or Pump ( )  or () Other/ston? () N (sp.	ecity)
p Minu Volume of V Di	Pump Start Tirr Pump Stop Tirr unter of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate	ne /4:10 ne /7:10 ng /30 nd 4.75 Y N Meter Type(s) Total Gallone	Serial Numbera Water Level		Perietaitic Pu Pump Type: Samples coll	Method: Bailer Imp (X) S Geo P ected by same in	Ott  ( ) Bladde  Submersible Pump  (A M P Z  Bethod as evacuate	or Pump ( )  Officer/  tion? ( ) N (sp.	ocity)
P P Minu Volume of W Di	Pump Start Tirr Pump Stop Tirr unter of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (L/min.)	14:10   17:10   130	Serial Numbers Water Level (ft TIC)	Temp.	Perietaitic Pu Pump Type: Samples coll	Method: Bailer Imp (X) S Sec) P ected by same in H.	Oth  ( ) Bladde  ( ) Bladde  bubmersäble Pump  ( M M P Z  nethod as evacuat  a.c. ( Z / OO)  Turbidity	or Pump ( )  or () Other/s  tion? () N (sp.	ORP
P P Minu Volume of W Di	Pump Start Tirr Pump Stop Tirr unter of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate	ne /4:10 ne /7:10 ng /30 nd 4.75 Y N Meter Type(s) Total Gallone	Serial Numbera Water Level	Temp. (Celeius)	Peristatic Pu Pump Type: Samples coll 3 G M P 5	Method: Bailer Imp (X) S Ge.) P ected by same in H.  [Sp. Cond. (mS/cm)	Oth  ( ) Bladde  jubmersible Pump  (A M p Z Z Pump  ethod as evacuate  (A C Z / O O Turbidity  (NTU)  [10% or 1 NTU]	or Pump ( )  Officer/s  tion? N (sp.	ORP
P P P Minu Valume of W Di	Pump Start Tirr Pump Stop Tirr unter of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (L/min.)	14:10   17:10   130	/ Serial Numbers  Water Level (RTC)  5.79'	Temp. (Celeius) [3%]"	Peristatic Pu Pump Type: Samples coll SG M P 5 pH	Method: Bailer Imp (X) S Gear P ected by same in  H Sp. Cond. (ms/cm) [3%]*	Off  ( ) Bladde Submersible Pump Z sethod as evacual (NTU) [10% or 1 NTU]	or Pump ( )  or () Other/s  tion? () N (sp.	ORP (mV)
P P P Minu Volume of W Dia	Pump Start Tirr Pump Stop Tirr utes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.)	14:10   17:10   130	/ Serial Numbers  Water Level (RTIC)  5.79'	Temp. (Celatus) [3%]"	Peristatic Pu Pump Type: Samples coli S 6 M P 5  pH  (0.1 units)*	Method: Bailer Imp (X) S Ged P ected by same in  A  Sp. Cond.  (mS/am)  [3%]*	Off  ( ) Bladde jubrnersible Pump Z period as evacual (NTU) [10% or 1 NTU] Z G	pr Pump ( )  Other/stion? N (sp.  DO (mg/l)  10% or 0.1 mg/l	ORP (10 mV)
P P P Minu Valume of W Di	Pump Start Tirr Pump Stop Tirr rutes of Pumpin Water Remove Old Well Go Dry Water Quality Pump Rate (L/min.) /// O/m   /// O/m	14:10   17:10   180	/Serial Numbers  /Serial Numbers  Water Level (RTTC)  5.79'  5.79'	Temp. (Celetus) [3%]*	Peristatic Pu Pump Type: Samples coli S G M P S  pH  i(0.1 units)*	Method: Bailer Imp (X) S Geo P ected by same in H.  Sp. Cond. (ms/cm) [3%]*	Off  ( ) Bladde Submersible Pump Z sethod as evacual (NTU) [10% or 1 NTU]	or Pump ( )  or () Other/s  tion? () N (sp.	ORP (10 mV)
Time	Pump Start Tirr Pump Stop Tirr sutes of Pumpin Water Remove Old Well Go Dry Water Quality Pump Rate (L/min.) /// O/M   /// O/M   /// O/M	14:10   17:10   180	/Serial Numbers  / Serial Numbers  Water Level (RTIC)  5.79'  5.79'  5.79'	Temp. (Celatus) [3%]"	Peristatic Pu Pump Type: Samples coli S 6 M P 5  pH  (0.1 units)*	Method: Bailer Imp (X) S Ged P ected by same in  A  Sp. Cond.  (mS/am)  [3%]*	Off  ( ) Bladde jubrnersible Pump Z period as evacual (NTU) [10% or 1 NTU] Z G	pr Pump ( )  Other/stion? N (sp.  DO (mg/l)  10% or 0.1 mg/l	ORP (mV) [10 mV] -57.
Volume of Vi Di	Pump Start Tirr Pump Stop Tirr sutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (L/min.) /DUm   /OUm   /OUM   /OUM	14:10   13	/Serial Numbers  /Serial Numbers  Water Level (RTTC)  5.79'  5.79'	Temp. (Celetus) [3%]*	Peristatic Pu Pump Type: Samples coli S G M P S  pH  i(0.1 units)*	Method: Bailer Imp (X) S Ged P ected by same in H. Sp. Cond. (ms/am) [3%]*	Off  ( ) Bladde Submersible Pump Z MP Z Method as evacuate (NTU) [10% or 1 NTU] 3 0 Z G 10	pr Pump ( )  or ( ) Other/s  tion? N (sp  Turs / )  DO (mg/l)  r [10% or 0.1 mg/l	ORP (10 my) - 57.0
Minu Volume of Vi Dia	Pump Start Tirr Pump Stop Tirr sutes of Pumpin Water Remove Old Well Go Dry Water Quality Pump Rate (L/min.) /// O/M   /// O/M   /// O/M	14:10   13	/Serial Numbers  / Serial Numbers  Water Level (RTIC)  5.79'  5.79'  5.79'	Temp. (Celetus) [3%]*	Peristaltic Pu Pump Type: Samples colli SGM PS  pH  i0.1 units;*	Method: Bailer Imp (X) S Geo P ected by same in H.  Sp. Cond. (ms/cm) [3%] 1.156  1.155	Off  () Bladde Submersible Pump Z Sethod as evacuate (NTU) [10% or 1 NTU] 30 Z 6 10 8 7	DO (mg/l)  1 (10% or 0.1 mg/l)  4.30  1.51  1.28	ORP (mv) [10 mv] - 57.6
Three  2.15  1.20  2.35  2.45	Pump Start Time Pump Stop Stop Time	14:10   17:10   180	Serial Numbers   Water Level (RTIC)   5.79'	Temp. (Celetus) [3%]*	Peristatic Purp Type: Samples coli SGM PS  pH  i0.1 units;  7.02  7.03  7.06  7.06	Method: Bailer	Oth  ( ) Bladde submersible Pump Z pethod as evacual (NTU) [10% or 1 NTU] Z G 10 8 7 7 7	DO (mg/l)  1 10% or 0.1 mg/l  1 28  1 06	ORP (mV)  -57.6
Time  215 220 230 245 400 250 6	Pump Start Time Pump Stop Time Pump Stop Time Pump Stop Time Pump Stop Time Water Remove Vid Well Go Dry  Water Quality  Pump Rate (L/min.)  /00m   /00m   /00m   /00m	14:10   13	Serial Numbers   Water   Level (ft TIC)   5.79'   5.79'   5.79'   5.79'   5.79'	Temp. (Celetus) [3%]" — — — — — — — — — — — — — — — — — — —	Peristatic Purp Type: Samples coli S 6 M P 5  pH  i0.1 units 1  7.02  7.03  7.06  7.06  7.08	Method: Bailer Imp (X) S Geo P ected by same in H.  Sp. Cond. (ms/cm) [3%] 1.156  1.155	Off  () Bladde Submersible Pump Z Sethod as evacuate (NTU) [10% or 1 NTU] 30 Z 6 10 8 7	DO (mg/l)  1 (10% or 0.1 mg/l)  4.30  1.51  1.28	ORP (mv) [10 mv] - 57.6

Site/GMA Name	GE Pittsfield /GMA-3
Sampling Personnel	
Date	5/8/08
Weather	Mostly cloudy, 700F
	Sampling Personnel Date

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)	DO (mg/l) [10% or 0.1 mg/l]*	ORI (mV
15:00	100ml	1.32	5.79	9.78	7.08	1.151	8	0.62	[10 m
15:05	100ml	1.45	5.79	9.79	7.09	1.150	8	0.57	754.
15:10	100 ml	1.59	5.79	9.77	7.08	1.149	8	0.52	-55.
15:15	100ml	1.72	5.79	9.70	7.08	1.148		0.48	-53.
									,
<del></del>									
					<u> </u>				
				ļ					
				-					
									•
									···

, Well	No. ///								
Key	No. 253	7			Ampling Perso	mel GAR	PAR	1/6MA-3	
PID	Background (	pm)		-		5/6/	ng of b		
NeW	i Hendepace (p	pm) 0			Wear		y sunny	, 700F	
WELL INF	ORMATION					,	Semaia T	me 16:30	
	once Point Med		N į			r	•	10 111A-R	
Heigh	t of Reference i	oint # 2-30	Meas.F	rom Groun	, J		Duplicate		
	Well Dian						MSA		***************************************
		opth 40'-50		rom Grow	<u>, J</u>		Sp# Sample		<del></del>
		opth 13.2;	-	rom TIL	-				
		epth <u>52./0</u> emn 38.83		rom TIC		Required	d <u>Annelyt</u>	cal Parameters:	Collecte
Long:	nu ot water Col	Mm <u>30.83</u> Ned <u>6.34</u>	<u> </u>			( <b>X</b> )		Cs (Std. fist)	(X)
intaka Dac	oth of Pump/Tut	47.3				( )	, vo	Ca (Exp. list)	( )
			WIGGS, P.F	om Til		( )		SVOC8	( )
Reference P	oint Identification	in:				( )		CBs (Total)	( )
	Inner (PVC) Ca					( )		s (Dissolved)	( )
	f Outer (Protect	-				( )		norganics (Total)	( )
Grade/BGS:	Ground Surfac	8				( )		ganics (Dissolved)	( )
						( )		inide (Dissolved)	( )
Redevelop?	Y (10)					( )		nide (Dissolved) XDs/PCDFs	( )
						( )		tes/Herbicides	( )
						(X)		M Attenuation	( )
D/401-470-						( )		or (Specify)	( <b>٦</b> ٤ )
	N INFORMATIC Pump Start Tim							(	,
		4-0 gul	70ns		Peristatic Pu Pump Type:	Geo	ubmersible Pump Pump Z		pecify ( )
	Pid Well Go Dry			: <u>YSI-5</u>	Pump Type: Samples colle	Geo	Pump Z ethod as evacuation		≓y)
0	Old Well Go Dry Water Quality Pump	Meter Type(s) / :		. <u> </u>	Pump Type: Samples colle	Geo	Pump Z ethod as evacuation as h Z/o	OP Turbio	ineter
	Water Quality Pump Rate	Meter Type(s) /:  Total  Gailone	Serial Numbers: Water Level		Pump Type: Samples colli 56 M P S	G co	Pump Z ethod as evacuation	0P 7 4 6 1 6	imeter
Time	Water Quality Pump Rate (L/min.)	Meter Type(s) / :	Serial Numbers:	Temp.	Pump Type: Samples colli 56 M P S	ected by same m	Pump Z pethod as evacuation ach Z/D Turbidity	DO (mg/l)	meter ORP (mv)
0	Water Quality Pump Rate (L/min.)	Meter Type(s)/:  Total Gailone Removed  0.13	Serial Numbers:  Water Level (ft TIC)  /3. 93	Temp. (Celeius)	Pump Type: Samples colli 56 M P J	Sp. Cond.	Pump Z pethod as evacuation as the Z/D Turbidity (NTU)	DO (mg/l)	imeter
Time 15:10 15:20	Water Quality Pump Rate (L/min.)	Meter Type(s) / S  Total Gallone Removed  O · / S  O · / D	Water Level (ft Tic) /3. 93 /5-29	Temp. (Celeius)	Pump Type: Samples colli SG M P S  pH  (0.1 units)*  7. 76	Sp. Cond.	Pump Z pethod as evacuation a.ch Z/or Turbidity (NTU) [10% or 1 NTUP	DO (mg/l)	ORP (mv) [10 mv)
Time  15:10  15:20  15:25	Water Quality Pump Rate (L/min.) /00 m/	Meter Type(s) / S  Total Gailone Removed  0 · / 3  0 · / 0  0 · GO	Water Level (ft TIC) /3. 93 /5-24	Temp. (Calaius) [3%]* //. 9 3	Pump Type: Samples colla 56 M P S pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Pump Z pethod as evacuation a ch Z/o Turbidity (NTU) [10% or 1 NTUr	DO (mg/l) [10% or 0.1 mg/l]*	(meter ORP (mv) [10 mv)
Time 15:10 15:20 15:25 15:30	Water Quality Pump Rate (L/min.) /00 m/ /50 m/ 150 m/	Meter Type(s)/:  Total Gailone Removed  0.13  0.40  0.60  0.80	Serial Numbers:  Water Level (ft TIC)  /3. 93  /5-24  15-65  /6. /7	Temp. (Geleius) [3%]* //. 9 3 //. 6 6 //. 3 8	Pump Type: Samples colli SG M P S  pH  (0.1 units)*  7. 76	Sp. Cond. (mS/cm) [3%]*	Pump Z pethod as evacuation as the Z/O Turbidity (NTU) [10% or 1 NTUP	DO (mg/l) [10% or 0.1 mg/l]*  Z.66  1.4/	ORP (mv) [10 mv] -87.7
Time  15:10  15:20  15:25  15:30  15:35	Water Quality Pump Rate (L/min.) /00 m/ /50 m/ /50 m/	Meter Type(s)/:  Total Galtone Removed 0.13 0.40 0.60 0.80 0.99	Serial Numbers:  Water Level (ft TIC)  /3. 93  /5-24  15-65  /6. 17  /6. 52	Temp. (Calaius) [3%]* - //. 9 3 //. 6 6 //. 3 8 //. 3 4	Pump Type: Samples colla SG M PS  pH  j0.1 units;*  7. 76  7-87	Sp. Cond. (mS/cm) (3%)*  0.703	Turbidity (NTU) [10% or 1 NTU]  9	DO (mg/l) [10% or 0.1 mg/l]*  Z.66  1.4/	ORP (mv) [10 mv) -87.7 -81.3
Time  15:10  15:20  15:25  15:30  15:35  15:40	Water Quality  Pump Rate (L/min.)  /00 ml /50 ml /50 ml	Y   N   N   N   N   N   N   N   N   N	Serial Numbers:  Water Level (RTC)  /3. 93  /5-24  15-65  /6. 17  /6. 52  /6.91	Temp. (Celeius) [3%]" — //. 9 3 //. 6 6 //. 3 8 //. 3 4 //. 3 6	Pump Type: Samples colli  S6 M P S  pH  [0.1 units]*  7. 76  7. 87  7. 97  8.10  8.19	\$p. Cond. (ms/cm) [3%]*  0.703  0.705	Pump 2 pethod as evacuation of the 270  Turbidity (NTU) [10% or 1 NTUP  9  12  12  7  5	DO (mg/l) [10% or 0.1 mg/l]*  Z.66  [-4]  [-7]  [-7]  [-7]	ORP (mv) [10 mv] -87.7 -81.3 -54.0 -33.0
Time  15:10  15:20  15:25  15:35  15:35  15:40  15:40	Pump Rate (L/min.)  /OO un / /50 un /	Meter Type(s)/:  Total Gailone Removed 0.13 0.40 0.60 0.80 0.99 1.19 1.39	Serial Numbers:  Water Level (RTIC)  13. 93  15-24  15-65  16. 17  16. 52  16.91  17.16	Temp. (Celeius) [3%]" — //. 9 3 //. 6 6 //. 3 8 //. 3 4 //. 3 6	Pump Type: Samples colla  SG M P S  pH  j0.1 units;*   7. 7G  7. 97  8.10  8.19  8.28	Sp. Cond. (mS/cm) (3%)*  0.703  0.705  0.707	Pump 2 pethod as evacuation as	DO (mg/l) [10% or 0.1 mg/l]*  Z.66  [-4]  [-7]  [-7]  [-7]	ORP (mV) [10 mV]*  -87.7  -81.3  -54.0  -33.0  -20.9
Time 15:10 15:20 15:25 15:30 15:35 15:40 15:40 15:50	Water Quality  Pump Rate (Limin.)  /OOM/ /OOM/ /SOM/ /SOM/ /SOM/ /SOM/	Meter Type(s) / S  Total Gailone Removed  0.13  0.40  0.80  0.99  /.19  /.39  /.59	Serial Numbers:  Water Level (ft TIC)  13. 93  15-24  15-65  16. 17  16. 52  16.91  17.16  17.37	Temp. (Calaium) [3%]* - //- 9 3 //- 6 6 //- 3 8 //- 3 4 //- 3 6 //- 3 5 //- 5 1	Pump Type: Samples colla  SG M P S  pH  j0.1 units;   7. 7G  7. 97  7. 97  8.10  8.19  8.28  8.30	Sp. Cond. (mS/cm) (3%)* 0.703 0.705 0.706 0.707 0.706 0.709	Pump 2 pethod as evacuation of the transition of	DO (mg/l) (10% or 0.1 mg/l) (10% or 0.1 mg/l) // // // // 9 Z Z -// (Z - 5 Z Z - 8 5 Z - 7 // )	ORP (mv) [10 mv] -87.7 -81.3 -54.0 -33.0 -20.9
Time  15:10  15:20  15:25  15:35  15:40  15:40  The stabilization	Water Quality  Pump Rate (L/min.)  /OOM/ /SOM/	Meter Type(s)/:  Total Gailone Removed  0.13  0.40  0.60  0.80  0.99  1.19  1.39  1.59  in field paramete	Water Level (ft TIC)  /3. 93  /5-24  15-65  /6. /7  /6. 52  /6. 17  /6. 52	Temp. (Calaium) [3%]* - //- 9 3 //- 6 6 //- 3 8 //- 3 4 //- 3 6 //- 3 5 //- 5 1	Pump Type: Samples colla  SG M P S  pH  j0.1 units;   7. 7G  7. 97  7. 97  8.10  8.19  8.28  8.30	Sp. Cond. (mS/cm) (3%)* 0.703 0.705 0.706 0.707 0.706 0.709	Pump 2 pethod as evacuation of the transition of	DO (mg/l) (10% or 0.1 mg/l) (10% or 0.1 mg/l) // // // // 9 Z Z -// (Z - 5 Z Z - 8 5 Z - 7 // )	ORP (mV) [10 mV]*  -87.7  -81.3  -54.0  -33.0  -20.9
Time  /5:/0  /5:20  /5:25  /5:30  /5:35  /5:40  The stabilization  BSERVATIONS	Water Quality  Pump Rate (Limin.)  /OOM/ /SOM/	Meter Type(s)/:  Total Gallone Removed  0.13  0.40  0.80  0.99  1.19  1.39  1.59  In field paramete	Serial Numbers:  Water Level (ft TIC)  /3. 93  /5-24  15-65  /6. /7  /6. 52  /6.91  /7./6  /7.37  If three consecutions	Temp. (Calaium) [3%]* - //- 9 3 //- 6 6 //- 3 8 //- 3 4 //- 3 6 //- 3 5 //- 5 1	Pump Type: Samples colla  SG M P S  pH  j0.1 units;   7. 7G  7. 97  7. 97  8.10  8.19  8.28  8.30	Sp. Cond. (mS/cm) (3%)* 0.703 0.705 0.706 0.707 0.706 0.709	Pump 2 pethod as evacuation as	DO (mg/l) (10% or 0.1 mg/l) (10% or 0.1 mg/l) // // // // 9 Z Z -// (Z - 5 Z Z - 8 5 Z - 7 // )	ORP (mv) [10 mv] -87.7 -81.3 -54.0 -33.0 -20.9
Time  15:10  15:20  15:25  15:35  15:35  15:40  15:50  The stabilization BSERVATIONS  Zn. f;ul	Water Quality  Pump Rate (L/min.)  /OOM/ /OOM/ /SOM/ /	Meter Type(s)/:  Total Gailone Removed 0.13 0.40 0.60 0.80 0.99 /.19 /.39 /.39 /.59 h field peramete	Serial Numbers:  Water Level (RTIC)  /3. 93  /5-24  15-65  /6. 17  /6. 52  /6. 91  /7. /6  /7. /6  /7. /6  /7. /6  /7. /6  ///  ///  ///  ///  ///  ///  ///	Temp. (Calaium) [3%]* - //- 9 3 //- 6 6 //- 3 8 //- 3 4 //- 3 6 //- 3 5 //- 5 1	Pump Type: Samples colla  SG M P S  pH  j0.1 units;   7. 7G  7. 97  7. 97  8.10  8.19  8.28  8.30	Sp. Cond. (mS/cm) (3%)* 0.703 0.705 0.706 0.707 0.706 0.709	Pump 2 pethod as evacuation of the transition of	DO (mg/l) (10% or 0.1 mg/l) (10% or 0.1 mg/l) // // // // 9 Z Z -// (Z - 5 Z Z - 8 5 Z - 7 // )	ORP (mv) [10 mv] -87.7 -81.3 -54.0 -33.0 -20.9
Time  15:10  15:20  15:25  15:35  15:35  15:40  15:50  The stabilization BSERVATIONS  Zn, f, ul	Water Quality  Water Quality  Pump Rate (Limin.)  100 ml  150 ml	Meter Type(s)/:  Total Gailone Removed 0.13 0.40 0.60 0.80 0.99 1.19 1.39 1.59 In field peramete ETHOD DEVIA:  Clear, oc	Serial Numbers:  Water Level (ft Tic)  /3. 93  /5-24  15-65  /6. 17  /6. 52  /6.91  /7. /6  /7.37  or (three consecutions	Temp. (Calaius) [3%]*  - //. 9 3 //. 6 6 //. 3 8 //. 3 4 //. 3 6 //. 3 5 //. 5 / //. 5 / //. 5 / //. 5 /	Pump Type: Samples colli  SG M P S  pH  j0.1 unitej*  7. 76  7. 87  7. 97  8.10  8.19  8.28  8.30  Diected at 3- to 8	Sp. Cond. (mS/cm) [3%]*  0.703  0.705  0.706  0.707  0.706  0.709  0.710	Pump 2 pethod as evacuation of the service of the s	DO (mg/l) [10% or 0.1 mg/l]  Z-66  /- 4/  /- 9 Z  Z-76  Z-76  column heading.	ORP (mV) [10 mV] -87.7 -81.3 -54.0 -33.0 -20.9 -14.0 -6.5
Time  15:10  15:20  15:25  15:35  15:35  15:40  15:50  The stabilization  BSERVATIONS  Tn. f. ul  Vuter / 6	Water Quality  Water Quality  Pump Rate (L/min.)  /OO m/  /OO m/  /SO	Meter Type(s)/:  Total Gailone Removed 0.13 0.40 0.60 0.80 0.99 1.19 1.39 1.59 In field peramete ETHOD DEVIA:  Clear, oc	Serial Numbers:  Water Level (ft Tic)  /3. 93  /5-24  15-65  /6. 17  /6. 52  /6.91  /7. /6  /7.37  or (three consecutions	Temp. (Calaius) [3%]*  - //. 9 3 //. 6 6 //. 3 8 //. 3 4 //. 3 6 //. 3 5 //. 5 / //. 5 / //. 5 / //. 5 /	Pump Type: Samples colli  SG M P S  pH  j0.1 unitej*  7. 76  7. 87  7. 97  8.10  8.19  8.28  8.30  Diected at 3- to 8	Sp. Cond. (mS/cm) [3%]*  0.703  0.705  0.706  0.707  0.706  0.709  0.710	Pump 2 pethod as evacuation of the service of the s	DO (mg/l) (10% or 0.1 mg/l) (10% or 0.1 mg/l) // // // // 9 Z Z -// (Z - 5 Z Z - 8 5 Z - 7 // )	ORP (mV) [10 mV] -87.7 -81.3 -54.0 -33.0 -20.9 -14.0 -6.5
	Water Quality  Water Quality  Pump Rate (L/min.)  /00 m/ /00 m/ /50 m/ /	Meter Type(s)/:  Total Gailone Removed 0.13 0.40 0.60 0.80 0.99 1.19 1.39 1.59 In field peramete ETHOD DEVIA:  Clear, oc	Serial Numbers:  Water Level (ft Tic)  /3. 93  /5-24  15-65  /6. 17  /6. 52  /6.91  /7. /6  /7.37  or (three consecutions	Temp. (Calaius) [3%]*  - //. 9 3 //. 6 6 //. 3 8 //. 3 4 //. 3 6 //. 3 5 //. 5 / //. 5 / //. 5 / //. 5 /	Pump Type: Samples colli  SG M P S  pH  j0.1 unitej*  7. 76  7. 87  7. 97  8.10  8.19  8.28  8.30  Diected at 3- to 8	Sp. Cond. (mS/cm) [3%]*  0.703  0.705  0.706  0.707  0.706  0.709  0.710	Pump 2 pethod as evacuation of the service of the s	DO (mg/l) [10% or 0.1 mg/l]  Z-66  /- 4/  /- 9 Z  Z-76  Z-76  column heading.	ORP (mV) [10 mV] -87.7 -81.3 -54.0 -33.0 -20.9 -14.0 -6.5
Time  15:10  15:20  15:25  15:35  15:35  15:40  15:50  The stabilization  BSERVATIONS  Zn. f; ul  Vuter /c  Laboratory:	Water Quality  Water Quality  Pump Rate (L/min.)  100 ml  150 ml	Meter Type(s)/:  Total Gailone Removed 0.13 0.40 0.60 0.80 0.99 1.19 1.39 1.59 In field peramete ETHOD DEVIA:  Clear, oc	Serial Numbers:  Water Level (ft Tic)  /3. 93  /5-24  15-65  /6. 17  /6. 52  /6.91  /7. /6  /7.37  or (three consecutions	Temp. (Calaius) [3%]*  - //. 9 3 //. 6 6 //. 3 8 //. 3 4 //. 3 6 //. 3 5 //. 5 / //. 5 / //. 5 / //. 5 /	Pump Type: Samples colli  SG M P S  pH  j0.1 unitej*  7. 76  7. 87  7. 97  8.10  8.19  8.28  8.30  Diected at 3- to 8	Sp. Cond. (mS/cm) [3%]*  0.703  0.705  0.706  0.707  0.706  0.709  0.710	Pump 2 pethod as evacuation of the service of the s	DO (mg/l) [10% or 0.1 mg/l]  Z-66  /- 4/  /- 9 Z  Z-76  Z-76  column heading.	ORP (mV) [10 mV] -87.7 -81.3 -54.0 -33.0 -20.9 -14.0 -6.5
	Water Quality  Water Quality  Pump Rate (L/min.)  100 ml  150 ml	Meter Type(s)/:  Total Gailone Removed 0.13 0.40 0.60 0.80 0.99 1.19 1.39 1.59 In field peramete ETHOD DEVIA:  Clear, oc	Serial Numbers:  Water Level (ft Tic)  /3. 93  /5-24  15-65  /6. 17  /6. 52  /6.91  /7. /6  /7.37  or (three consecutions	Temp. (Calaius) [3%]" — //. 9 3 //. 6 6 //. 3 8 //. 3 4 //. 3 6 //. 3 5 //. 5 1 //. 5 1 utive readings of	Pump Type: Samples colli  SG M P S  pH  j0.1 unitej*  7. 76  7. 87  7. 97  8.10  8.19  8.28  8.30  Diected at 3- to 8	Sp. Cond. (mS/cm) [3%]*  0.703  0.705  0.706  0.707  0.706  0.707  0.709  0.710	Pump 2 pethod as evacuation of the service of the s	DO (mg/l) [10% or 0.1 mg/l]  Z-66  /- 4/  /- 9 Z  Z-76  Z-76  column heading.	ORP (mV) [10 mV] -87.7 -81.3 -54.0 -33.0 -20.9 -14.0 -6.5

Well No	Site/GMA Name	GEPiHsfield / GMA-3
	Sampling Personnel	GAR/BAB
	Date	5/6/08
	Weather	Partly cloudy, 600F

,	MATION - See		T	T	<del>-  </del>		<del></del>	·	
Time	Pump Rate	Total Gallons	Water Level	Temp.	pH	Sp. Cond.	Turbidity	DO	ORP
	(L/min.)	Removed	(ft TIC)	(Celsius) [3%]*	[0.1 units]*	(mS/cm) [3%]*	(NTU)	(mg/l) [10% or 0.1 mg/l]	(mV)
15:55	150ml	1.79	17.53	11.42	8.31	0.715	3	2.56	-3.3
16:00	150ml	1.99	17.66	11.45	8.29	0.717	2	2:51	-14.7
16:05	150ml	2.18		11.55	8.28	0.719	3	2.25	-27.3
16:10	150ml	2.38	17.97	11.54	8.27	0.720	2	2.36	-13.5
16:15	150ml	2.58	18.10	11.51	8.27	0.720	Z	2.24	-13.Z
16:20	150ml	Z.78	18.15	11.54	8.25	0.721	2	2.10	-13.1
16:25	150ml	2.98	18.33	11.47	8.72	0-723	Z	2.06	-/1.3
	· · · · · · · · · · · · · · · · · · ·								
	<del></del>						(1		
									ŧ
					·				
				· · · · · · · · · · · · · · · · · · ·					
							,		
			ļ	ļ					

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

Well N Kay N	lo. F	X-37			Sampling Persor	mal 97	101000			
	nckground (j			****	· -	$\frac{1}{3}$	CC KNO			
Well H	<del>landepaca</del> (p	opm)			Was		14/08	700	1 8100	
WELL INFOR	DATATION						ing mg	$-\omega Q > C$	t Breeg	L
	roma i Joje 100 Point Mer						Sample 1	ime 14:32		
	ica rosit men if Reference I		N		,	r	Sampl		-0	
r <del>reignt</del> o			Moss. F	rom gray	ud		Duplicat		-/-	
_	Wed Dian	***************************************		V			MSA			
	en Interval D	· · · · · · · · · · · · · · · · · · ·	11.18 Mons. Fi	rom	·		Sp#t Sample			
W	fator Table D	-	20 Moss. Fi				ohur omishu	- ID		
I manada.	Well Do	epin	54 Mass, Fr	rom _T/C		Require	rd Anna	fical Parameters:	<b></b>	
	of Water Col	mm	74	.,		( <b>X</b> )		Cs (Ski, ist)	Collect	<b>B</b> C
volume https://doi.org/ intaks.	of Water in \	Neil VII	<u>97</u> 0.867.	11/3M	Λ	( 3		Ca (Exp. list)	(1	)
wama caba	or Pump/ fut	ang fari	Moss. Fr	om <u>GWW</u> i	1	( )	••	SVOCs	(	)
ference Poir	në lekametënet	16'	39 Maga, Fr 74 640.869: Maga, Fr (based	on wate	er table	( )	ρ	CBs (Total)	(	)
C: Top of Inn		M:			Senth)	( )		is (Dissolved)	( )	)
		sing			agara	( )		norganics (Total)	( )	,
OC: Top of O rade/BGS: G	mund C					( )		ganics (Dissolved)	( )	
	· vuita cumac					( )		enide (Dissolved)	( )	
idevelop?	۸ ( <u>بر</u>					( )		mide (Dissolved)	( )	
	. 4	•				( )		DDs/PCDFs	( )	
						( )		des/Herbicides	( )	
						( <b>X</b> )		M Attenuation	( )	
ACUATION I	NECEMATIC					( <b>*</b> )		or (Specify)	( <b>4</b> )	
	mp Start Time	ニカル						- (apolony)	( )	
	mp Stop Time	* #- <del></del>	<del></del>							
		. <i>1.7(1/</i> )								
1.0im.	e of Di		-	+	Evacuation Me	ethod: Bailer	( ) Bladrian	Pump (I/A		
Minute -We calume of We	of Pumping	110		•	Evacuation Me Peristattic Pun	1p() s	ubmersible Pump	Pump (K)	annike ( )	
olume of Wa	iter Removed	3-6 gul	Tons	•	Peristattic Pun Pump Type:	Mars	ubmersible Pump	() Other/s	pecify ( )	
Volume of Wa Did \	iter Removed Well Go Dry?	3-6 gwl		How the	Peristatic Pun Pump Type: Samples collec	Mars	ubmersible Pump chulk-5, nethod as evacuation	() Other/s		
okume of Wa	iter Removed Well Go Dry? /ater Quality I	3 //O 3-6 gw/ Y N	Serial Numbers:	- 44	Peristatic Pun Pump Type: Samples collec	$\frac{Mars}{Mars}$	ubmersible Pump chull - 5 ( sethod as evacuation	() Others	⊒ify)	_ :L.,
Olume of Wa	iter Removed Well Go Dry?	3-6 gwl	Serial Numbers:	Temp.	Peristatic Pun Pump Type: Samples collect	Mars  ted by same m  HO I A I  PJ  Sp. Cond.	ubmersible Pump chull - 5 ( sethod as evacuation	Other/Spor? N (spec	⊒ify)	_ :¿.,
olume of Wa	tter Removed Well Go Dry? /ater Quality / Pump	Y N  Total  Gailone	Sorial Numbers:	Temp. (Celeius)	Peristatic Pun Pump Type: Samples collect 3 03 (10 \$556 - 9	mp() S Mays ched by same m H() A M PJ Sp. Cond. (mS/cm)	Turbidity (NTU)	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	- :¿.,
olume of Wa	weil Go Dry? Vater Quality I Pump Rate	3-6 gu/ Y N Meter Type(s)/	Serial Numbers:	Temp.	Peristatic Pun Pump Type: Samples collect 3 03 (10	Mars  ted by same m  HO I A I  PJ  Sp. Cond.	Turbidity (NTU)	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	- :¿.,
okume of Wa	weil Go Dry? Vater Quality I Pump Rate	Y N  Total  Gailone	Sorial Numbers:	Temp. (Celeius)	Peristatic Pun Pump Type: Samples collect 3 03 (10 \$556 - 9	mp() S Mays ched by same m H() A M PJ Sp. Cond. (mS/cm)	Turbidity (NTU)	007 (7) Other/Sp 007 (7) N (spec 007 (7) N (spec 007 (7) N (spec 007 (7) N (spec	ORP (msV)	- :¿.,
Olume of Wa	weil Go Dry? Vater Quality I Pump Rate	Y N  Weter Type(s) /  Total Gallone Removed	Sorial Numbers:	Temp. (Celeius)	Peristatic Pun Pump Type: Samples collect 3 03 (10 \$556 - 9	Mars  Mars  Mars  Sed by same m  Hold Al  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU)	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	
Olume of Wa	weil Go Dry/  /ater Quality /  Pump  Rate (L/min.)	Y N  Y N  Meter Type(s) /  Total Gallone Removed	Sorial Numbers:	Temp. (Celeius)	Peristatic Pun Pump Type: Samples collect 3 03 (10 \$556 - 9	Mars  Mars  Mars  Sed by same m  Hold Al  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU)	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	
Volume of Wand Did Wa	viter Removed Weil Go Dry?  Vater Quality I  Pump Rate (L/min.)  50 75	Y N  Weter Type(s) /  Total Gallone Removed	Sorial Numbers:	Temp. (Celeius)	Peristatic Pun Pump Type: Samples collect 3 03 (10 \$556 - 9	Mars  Mars  Mars  Sed by same m  Hold Al  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU)	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	
Time	Pump Rate (L/min.)	Total Gallone Removed  0-13 0-36	Sorial Numbers:	Temp. (Celeius) [3%]*	Peristatic Pun Pump Type: Samples collect 3 03 (10 \$556 - 9	Mars  Mars  Mars  Sed by same m  Hold Al  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU)	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	المالية
Time 10 13 13 13 13 13 13 13 13 13 13 13 13 13	reter Removed Weil Go Dry/  Vater Quality   Pump Rate (L/noin.)  50  75  75	7/0 3-6 9/N Y N Meter Type(s) / Total Gallone Removed 	Sorial Numbers:	Temp. (Celeius)	Peristatic Pun Pump Type: Samples collect 3 03 (10 \$556 - 9	Mars  Mars  Mars  Sed by same m  Hold Al  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU)	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	
Time / / / / / / / / / / / / / / / / / / /	Pump Rate (L/min.)	Total Gallone Removed  0-13 0-36	Sorial Numbers:	Temp. (Celeius) [3%]*	Peristatic Pun Pump Type: Samples collect 3 03 (10 \$556 - 9	Mars  Mars  Mars  Sed by same m  Hold Al  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU)	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	
Time 10 135 / 35 / 35	reter Removed Weil Go Dry/  Pump Rate (L/min.)  50  75	7/0 3-6 gu/ Y N Weter Type(s)/ Total Gailone Removed 	Sorial Numbers:	Temp. (Celeius) [3%]*	Peristatic Pun Pump Type: Samples collect 3 03 (10 \$556 - 9	Mars  Mars  Mars  Sed by same m  Hold Al  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP  47  240  117  60	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	· ¿
Time   10   130   135   140   1	reter Removed Weil Go Dry?  Anter Quality   Pump Rate (L/min.)  50  750  750  700	7/0 3-6 9/N Y N Neter Type(s) / Total Gallone Removed 	Sorial Numbers:	Temp. (Celeius) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5-5-6-8 pH  [0.1 units]*	Mars  Mars  Mars  Sed by same m  Hold Al  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) (10% or 1 NTUP  47  165  240  117  60  39	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	نار ،
Time   10   130   135   140   1	reter Removed Weil Go Dry?  Anter Quality   Pump Rate (L/min.)  50  750  750  700	7/0 3-6 gu/ Y N Weter Type(s)/ Total Gailone Removed 	Sorial Numbers:	Temp. (Celeius) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - #	Mars  Mars  Hold All  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) (10% or 1 NTUP  47  165  240  117  60  39	() Other/S 2.17cm On; on? (T) N (specially) Ch - 2/0 v f  DO (mg/l) [10% or 0.1 mg/l)	ORP (mv) [10 mv]*	
10 325 1	reter Removed Weil Go Dry?  Anter Quality   Pump Rate (L/min.)  50  750  750  700	7/0 3-6 9/N Y N Neter Type(s) / Total Gallone Removed 	Sorial Numbers:	Temp. (Celeius) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - #	Mars  Mars  Mars  Sed by same m  Hold Al  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP  47  240  117  60	( ) Other/S  2.1240 On;  On? ( N (spec	ORP (msV)	
Clume of War Did War D	reter Removed Weil Go Dry/s  Value Quality    Pump Rate (L/noin.)  50  75  00  00	7/0 3-6 gu/ Y N Meter Type(s)/ Gailone Removed 	Serial Numbers:  Water Level (ft TIC)  14.32  14.35  14.42  14.43  14.38  14.38  14.35  14.13	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 C C  5 5 6 - P  pH  j0.1 units;*	Mars  Mars	Turbidity (NTU) [10% or 1 NTUP 47 [60 ] 39 30	Other/S 2.7 cm One on? (T) N (spec ch - 2/0 p f DO (mg/l) [10% or 0.1 mg/l]	ORP (mv) [10 mv]*	ik
Clame of Wa Did War Di	reter Removed Weil Go Dryft  Anter Quality   Pump Rate (L/min.)  50  75  75  70  70  70  70  70  70  70	7/0 3-6 9/N Y N Neter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (RTIC)  14.32  14.35  14.42  14.438  14.38  14.35  14.12  r (three consecut	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 units i*	mp () S  May 5  May 5  May 5  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv] 22.3	ia
Time   10   130   135   140   145	ter Removed Weil Go Dryf  Autor Quality   Pump Rate (L/min.)  50  75  00  00  AMPLING ME	7/0 3-6 9/1/ Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (ft TIC)  14.32  14.35  14.42  14.38  14.38  14.35  14.35  14.38  14.38  14.38  14.38	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 units i*	mp () S  May 5  May 5  May 5  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 () is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv] 22.3	ia
Time   10   130   135   140   145	ter Removed Weil Go Dryf  Autor Quality   Pump Rate (L/min.)  50  75  00  00  AMPLING ME	7/0 3-6 9/1/ Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (ft TIC)  14.32  14.35  14.42  14.38  14.38  14.35  14.35  14.38  14.38  14.38  14.38	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 units i*	Mars  Mars	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv]*	ia
Time   10   130	ter Removed Weil Go Dryf  Autor Quality   Pump Rate (L/min.)  50  75  00  00  AMPLING ME	7/0 3-6 9/1/ Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (RTIC)  14.32  14.35  14.42  14.438  14.38  14.35  14.12  r (three consecut	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 unitsi*  7 65  7 67  lected at 3- to 5-	mp () S  May 5  May 5  May 5  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 () is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv] 22.3	ia
Time   10   130   135   145	ter Removed Weil Go Dryf  Autor Quality   Pump Rate (L/min.)  50  75  00  00  AMPLING ME	7/0 3-6 9/1/ Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (ft TIC)  14.32  14.35  14.42  14.38  14.38  14.35  14.35  14.38  14.38  14.38  14.38	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 unitsi*  7 65  7 67  lected at 3- to 5-	mp () S  May 5  May 5  May 5  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 () is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv] 22.3	ia
Time   10   130   135   145	ter Removed Weil Go Dryf  Autor Quality   Pump Rate (L/min.)  50  75  00  00  AMPLING ME	7/0 3-6 9/1/ Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (ft TIC)  14.32  14.35  14.42  14.38  14.38  14.35  14.35  14.38  14.38  14.38  14.38	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 unitsi*  7 65  7 67  lected at 3- to 5-	mp () S  May 5  May 5  May 5  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 () is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv] 22.3	ia
Time   10   130   135   140   145	ter Removed Weil Go Dryft  Value Quality   Pump Rate (Limin.)  50  75  00  00  terria for each AMPLING ME	7/0 3-6 9/1/ Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (ft TIC)  14.32  14.35  14.42  14.38  14.38  14.35  14.35  14.38  14.38  14.38  14.38	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 unitsi*  7 65  7 67  lected at 3- to 5-	mp () S  May 5  May 5  May 5  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 () is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv] 22.3	ia
Time Water of Water o	ter Removed Weil Go Dry?  Inter Quality   Pump Rate (L/msin.)  50  75  00  00  teria for each Min(n)	7/0 3-6 9/1/ Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (ft TIC)  14.32  14.35  14.42  14.38  14.38  14.35  14.35  14.38  14.38  14.38  14.38	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 unitsi*  7 65  7 67  lected at 3- to 5-	mp () S  May 5  May 5  May 5  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 () is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv] 22.3	ia
Time  VA  Time  VA  Time  VA  VA  VA  VA  VA  VA  VA  C  C  C  C  C  C  C  C  C  C  C  C  C	ter Removed Weil Go Dryft  Value Quality   Pump Rate (L/min.)  50  75  00  00  teria for each  AMPLING ME  MINIT	7/0 3-6 9/1/ Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (ft TIC)  14.32  14.35  14.42  14.38  14.38  14.35  14.35  14.38  14.38  14.38  14.38	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 unitsi*  7 65  7 67  lected at 3- to 5-	mp () S  May 5  May 5  May 5  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 () is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv] 22.3	ia
Time Water of Water o	ter Removed Weil Go Dryft  Value Quality   Pump Rate (L/min.)  50  75  00  00  teria for each  AMPLING ME  MINIT	7/0 3-6 9/1/ Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers:  Water Level (ft TIC)  14.32  14.35  14.42  14.38  14.38  14.35  14.35  14.38  14.38  14.38  14.38	Temp. (Celetus) [3%]*	Peristatic Pun Pump Type: Samples collect  3 03 (10 5 5 6 - 0 pH  i0.1 unitsi*  7 65  7 67  lected at 3- to 5-	mp () same m  Ho I A I  M PJ  Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTUP 47 165 240 117 60 39 30 () is listed in each of	000 (mg/l) [10% or 0.1 mg/l]  4.36 3.89	ORP (mv) [10 mv] 22.3	ia

Well No /// B-R	Site/GMA Name	GHA 3	
	Sampling Personnel	KICIRAB	
	Date	5114108	
	Weather	Sunny Breezy Low 705	

Time	Pump Rate	Total Gallons	Water Level	Temp.	рH	Sp. Cond.	Turbidity	DO	ORP
	(L/min.)	Removed	(ft TIC)	(Celsius) [3%]*	[0.1 units]*	(mS/cm) [3%]*	(NTU)	(mg/i) [10% or 0.1 mg/i]*	(mV)
1350	100	1-06	14.36	14.32	7.68	0.724	23	4 1)	21.8
/355	100	1-19	14.37	14136	7.68	0.727	18	419	24.
1400	50	1-26	14.36	14.53	7.68	0.723	16	484	25
1405	150	1.46	14,40	14.33	7.67	0.724	13	5 39	7/
1410	200	1.72	14.42	12,60	7.70	0.729	10	608	28.4
1415	125	1-89	14.36	13.06	7.68	0.721	11	5.85	31,3
420	125	2.05	14.37	13.61	7.72	0.725	12	6.02	30.3
1423	125	2.15	14.37	13.81	7.72	0.721	12	5.95	29
426	125	2.25	14.37	14.54	7.68	0.723	10	5.96	29
1429	125	2.35	14.35	14.08	7,68	0.729	10	66979	19
432	125	2.45	14.38	14.55	7.67	0.722	11	6.11	791
								- GR.	- <del></del>
		Sau	plede	143	2				
		1					-		
									· · · · · · · · · · · · · · · · · · ·
				·					
		1							

The stabilization criteria for each field parameter (three consecutive readings collected at 3, to 5 minute intervals) in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the consecutive readings collected at 3, to 5 minute intervals in the collected	
OBSERVATIONS/SAMPLING METHOD DEVIATIONS  Observations/Sampling METHOD DEVIATIONS  Observations/Sampling METHOD DEVIATIONS  Other Hemp fluctuating up and down as	Ü

		C.L. L.L.								
	oll No	77			Sim/GMA N	ame CM	<del>1</del> 3			
	D Background	<u> </u>		\$	Sampling Person		4B/KLC			
	oli Hendepace (		_			Date 5 1	3108			
***	<del></del>	(Maril)			. Wee	ther _Su	any M	0605		
WELL IN	FORMATION						l	12:14		
Refe	erence Point Me	vrked? Y /	N)				- Sample 1	me <u>  1340</u>		
	int of Reference	k		mm 00011	nd	r	Sampi		A	
	Well Dia	meter # )	77	rom GCOU	119		Duplicati			
\$	Screen Interval I	Depth 45-5	Moss. Fr	om <u>arau</u>	ind		MSA			
	Water Table I	Depth 5.98	Moss. Fr		×192		Spilt Sample	• ID		
	Well (		Moss, Fr	-		Require	rl Anna.	44 F3		
	gth of Water Co				<del></del>	(X)		Ical Parameters:	Collected	ŧ
	ume of Water in		ullons			(2)		OCs (Skd. fiet) Cs (Exp. liet)	( // )	
intaito De	epth of Pump/Tu	lbing 75-5		om <u>Graun</u>		( )	••	SVOCs	( )	
Deference	Clarina Internation	47.5	245	last 2' u	1.1.16	( )	P	CBs (Total)	( )	
	Point Identificat of Inner (PVC) C		()	lasi de la	DANOUS AND	( <b>X</b> )		ls (Dissolved)	( ) ( <b>V</b> ^)	
	of Outer (Protec			70 00	wii	( )		norganics (Total)	( )	
	Ground Surfa					( )		rganics (Dissolved)	( )	
						( )		enide (Dissolved)	( )	
Redevelop	7 Y (N)					( )	PAC Cy	anide (Dissolved)	( )	
·						( )		DDs/PCDFs	( )	
						( )		des/Herbicides	( )	
						( <b>X</b> )		M Attenuation	(2)	
VACUATK	ON INFORMATI	ON /0//0				( )	Oth	er (Specify)	( )	
	Pump Start Tir					•				
	Pump Stop Tin			<b>.</b>	Evacuation N	lathade Dalla				
	inutes of Pumpi		25		Peristaltic Pu			Pump ( )		
	f Water Remove		allons		Pump Type:	reopun	Submersible Pump	() Other/Sp	pecify ( )	
	Did Well Go Dry	PY (PY)			Commission and	acapun	40 0X			
	Water Quality	Mater Time(a) (	Carial Manual	#2 V-	ownpres cate	ected by same m	ethod as evacuati	on? Y N (spec	afy)	
Time	Pump	Total	Water	Temp.	7-556,	A アリ Same m	HALM Z/D	OP Turby	dineter	: 1
Time		Total Gallone	Water Level	Temp. (Celsius)	7-556, ph	Sp. Gond.	Yach 210	OP Turbi	dineter	: ]
Time 250	Pump Rate (L/min.)	Total Gallone Removed	Water	Temp.	1-556,	MPJ ,	YALH ZID	DO (mg/l)	ORP	
Time 250	Pump Rate	Total Gailone Removed	Water Level	Temp. (Celsius)	7-556, ph	Sp. Gond.	Yach 2/01 Turbidity (NTU)	DO (mg/l)	ORP (mV)	
Time 250 255	Pump Rate (L/min.)	Total Gallone Removed	Water Level	Temp. (Celaius) [3%]*	7-556 pH [0.1 units]*	An (7-)  Sp. Cond. (mS/cm)  (3%)*	Turbidity (NTU) [10% or 1 NTUP	DC (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	
Time 250 255 300	Pump Rate (L/min.)	Total Gallone Removed  0.76  0.39	Water Level (RTC) 10,94 12,15	Temp. (Celaius) [3%]*	7-556, ph	MPJ  Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTUP	0P Turb;  00 (mg/l) [10% or 0.1 mg/l]*  HOUGH FL	ORP (mV) [10 mV]*	
Time 1250 255 300	Pump Rate (Linsin.)	Total Gallone Removed  0.76  0.39	Water Level	Temp. (Celaius) [3%]*	7-556 pH [0.1 units]*	An (7-)  Sp. Cond. (mS/cm)  (3%)*	Turbidity (NTU) [10% or 1 NTUP	DC (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV)	
Time 1250 255 300 305	Pump Rate (L/min.) / 00 //00 //00	Total Gallone Removed  0.76  0.39	Water Level (RTC) 10,94 12,15	Temp. (Celaius) [3%]*	7-556 pH [0.1 units]*	Sp. Cond. (ms/cm) (3%)*  WATER O.426	Turbidity (NTU) [10% or 1 NTUP	0P Turb;  00 (mg/l) [10% or 0.1 mg/l]*  HOUGH FL	ORP (mV) [10 mV]*	
Time 250 255 300 305 310	Pump Rate (Linsin.)	Total Gailone Removed  0.16 0.39 0.52 0.66	Water Level (RTC) 10,94 12,15	Temp. (Celaius) [3%]*	7-556 pH (0.1 units)*	M P)  "Sp. Cond. (ms/cm) [3%]*  WATER  0.426  0.421	Turbidity (NTU) [10% or 1 NTUP	0P Turb;  00 (mg/l) [10% or 0.1 mg/l]*  HOUGH FL	ORP (mV) [10 mV)	
Time 250 255 300 305 310	Pump Rate (L/min.) / 00 //00 //00	Total Gailone Removed  0.7-6  0.39  0.52  0.66  0.79	Water Level (RTC) 10,94 12,15	Temp. (Celaius) [3%]*	7-556 pH (0.1 units)*	Sp. Cond. (ms/cm) (3%)*  WATER O.426	Turbidity (NTU) [10% or 1 NTUP	0P Turb;  00 (mg/l) [10% or 0.1 mg/l]*  HOUGH FL	ORP (mV) [10 mV]*	
Time 250 255 300 305 310 315	Pump Rate (L/min.) / 00 //00 //00	Total Gailone Removed  0.26 0.39 0.52 0.66 0.79 0.92	Water Level (RTC) 10,94 12,15	Temp. (Celaius) [3%]*	7-556 pH (0.1 units)*	M P)  "Sp. Cond. (ms/cm) [3%]*  WATER  0.426  0.421	Turbidity (NTU) [10% or 1 NTUP	0P Turb;  00 (mg/l) [10% or 0.1 mg/l]*  HOUGH FL	ORP (mV) [10 mV]* (W) 77+60 -22602 -233.5	
Time 250 255 300 305 310 315	Pump Rate (L/min.) / 00 //00 //00	Total Gailone Removed  0.7-6  0.39  0.52  0.66  0.79	Water Level (RTC) 10,94 12,15	Temp. (Celaius) [3%]*	7-556 pH (0.1 units)*	M P)  "Sp. Cond. (ms/cm) [3%]*  WATER  0.426  0.421	Turbidity (NTU) [10% or 1 NTUP	0P Turb;  00 (mg/l) [10% or 0.1 mg/l]*  HOUGH FL	ORP (mV) [10 mV]*	
Time 250 255 300 305 310 315	Pump Rate (L/min.) / 00 //00 //00	Total Gailone Removed  0.26 0.39 0.52 0.66 0.79 0.92	Water Level (RTC) 10,94 12,15	Temp. (Celaius) [3%]*	7-556 pH (0.1 units)*	M P)  "Sp. Cond. (ms/cm) [3%]*  WATER  0.426  0.421	Turbidity (NTU) [10% or 1 NTUP	0P Turb;  00 (mg/l) [10% or 0.1 mg/l]*  HOUGH FL	ORP (mV) [10 mV]* (W) 77+60 -22602 -233.5	
350 300 305 310 315 320	Pump Rate (L/roin.)  100  100  100  100	Total Gailone Removed  0.26  0.39  0.52  0.66  0.79  0.92  1.05	Water Lovel (RTIC) 10,94 13,74 15,32 16,62 17,62 18,68 19,35	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09	1-556, pH i0.1 unitate FARWG 7.76 7.75 7.82 7.89 7.97 8.04	Mps, Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463	Turbidity (NTU) (10% or 1 NTUP  26 60/10% T/ 25 17 15 14	0P Turb; 000 (mg/l) [10% or 0.1 mg/l* 400GH FL 1.83 1.23 0.99 0.88 0.79	ORP (mV) [10 mV]* (W) THEC -226,2 -233.5 -243.2 -253.2	
250 255 300 305 310 315 320 325	Pump Rate (Linsin.)  100  100  100  In criteria for see	Total Gailone Removed  0.26 0.39 0.52 0.66 0.79 0.92 1.05 1.18 ch field paramete	Water Level (RTC) 10,94 13,74 15,32 16,62 17,62 18,68 19,35	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09	1-556, pH i0.1 unitate FARWG 7.76 7.75 7.82 7.89 7.97 8.04	Mps, Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463	Turbidity (NTU) (10% or 1 NTUP  26 60/10% T/ 25 17 15 14	0P Turb; 000 (mg/l) [10% or 0.1 mg/l* 400GH FL 1.83 1.23 0.99 0.88 0.79	ORP (mV) [10 mV]* (W) 77+60 -22602 -233.5	
250 255 300 305 310 315 320 325 stabilization	Pump Rate (L/min.)  / 00  /00  /00  on criteria for each	Total Gallone Removed  0.74  0.39  0.52  0.66  0.79  0.92  1.05  1.18  ch field paramete METHOD DEVIA	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09	pH  j0.1 unital*  FANING  7.76  7.75  7.82  7.87  7.97  8.04	Mps, Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463	Turbidity (NTU) [10% or 1 NTUP	0P Turb; 000 (mg/l) [10% or 0.1 mg/l* 400GH FL 1.83 1.23 0.99 0.88 0.79	ORP (mV) [10 mV]* (W) THEC -226,2 -233.5 -243.2 -253.2	
250 255 300 305 310 315 320 325 e stabilization	Pump Rate (L/min.)  / 00  /00  /00  on criteria for each	Total Gailone Removed  0.26 0.39 0.52 0.66 0.79 0.92 1.05 1.18 ch field paramete	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09	pH  j0.1 unital*  FANING  7.76  7.75  7.82  7.87  7.97  8.04	Mps , Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463 0.398	Turbidity (NTU) [10% or 1 NTUP 26 25 17 15 14 14 14 15 15 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0P 76-6;  00 (mg/l) [10% or 0.1 mg/l*  1.83 1.23 0.99 0.88 0.79 0.77  Diumn heeding.	ORP (mV) [10 mV]* (W) 77460 -226,2 -233.5 -243.2 -253.2 -265.1	
250 255 300 305 310 315 320 325 stabilization	Pump Rate (L/min.)  / 00  /00  /00  on criteria for each	Total Gallone Removed  0.74  0.39  0.52  0.66  0.79  0.92  1.05  1.18  ch field paramete METHOD DEVIA	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09 14.89 the readings co	1-556, pH i0.1 unitage 2.76 7.76 7.75 7.82 7.89 7.97 8.04	Mps , Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463 0.398	Turbidity (NTU) (10% or 1 NTUP  26 60/10% T/ 25 17 15 14	0P Turb; 000 (mg/l) [10% or 0.1 mg/l* 400GH FL 1.83 1.23 0.99 0.88 0.79	ORP (mV) [10 mV]* (W) 77460 -226,2 -233.5 -243.2 -253.2 -265.1	
250 255 300 305 310 315 320 325 e stabilization	Pump Rate (L/min.)  / 00  /00  /00  on criteria for each	Total Gallone Removed  0.74  0.39  0.52  0.66  0.79  0.92  1.05  1.18  ch field paramete METHOD DEVIA	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09 14.89 the readings co	1-556, pH i0.1 unitage 2.76 7.76 7.75 7.82 7.89 7.97 8.04	Mps , Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463 0.398	Turbidity (NTU) [10% or 1 NTUP 26 25 17 15 14 14 14 15 15 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0P 76-6;  00 (mg/l) [10% or 0.1 mg/l*  1.83 1.23 0.99 0.88 0.79 0.77  Diumn heeding.	ORP (mV) [10 mV]* (W) 77460 -226,2 -233.5 -243.2 -253.2 -265.1	
250 255 305 305 310 315 20 25 stabilization that is	Pump Rate (Linsin.) 100 100 100 100 100 Improve on criteria for an isysample of the company of t	Total Gallone Removed  0.74  0.39  0.52  0.66  0.79  0.92  1.05  1.18  ch field paramete METHOD DEVIA	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09 14.89 the readings co	1-556, pH i0.1 unitage 2.76 7.76 7.75 7.82 7.89 7.97 8.04	Mps , Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463 0.398	Turbidity (NTU) [10% or 1 NTUP 26 25 17 15 14 14 14 15 15 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0P 76-6;  00 (mg/l) [10% or 0.1 mg/l*  1.83 1.23 0.99 0.88 0.79 0.77  Diumn heeding.	ORP (mV) [10 mV]* (W) 77460 -226,2 -233.5 -243.2 -253.2 -265.1	
250 255 305 305 315 315 20 25 stabilization that (	Pump Rate (Linsin.) 100 100 100 100 100 In criteria for each is/SAMPLING I	Total Gallone Removed  0.74  0.39  0.52  0.66  0.79  0.92  1.05  1.18  ch field paramete	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09 14.89 the readings co	1-556, pH i0.1 unitage 2.76 7.76 7.75 7.82 7.89 7.97 8.04	Mps , Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463 0.398	Turbidity (NTU) [10% or 1 NTUP 26 25 17 15 14 14 14 15 15 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0P 76-6;  00 (mg/l) [10% or 0.1 mg/l*  1.83 1.23 0.99 0.88 0.79 0.77  Diumn heeding.	ORP (mV) [10 mV]* (W) 77460 -226,2 -233.5 -243.2 -253.2 -265.1	
250 255 300 305 310 315 320 325 3 stabilization hal (	Pump Rate (Linsin.)  100  100  100  100  In criteria for each is/sampling in the pumple of the pumpl	Total Gallone Removed  0.74  0.39  0.52  0.66  0.79  0.92  1.05  1.18  ch field paramete	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09 14.89 the readings co	1-556, pH i0.1 unitage 2.76 7.76 7.75 7.82 7.89 7.97 8.04	Mps , Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463 0.398	Turbidity (NTU) [10% or 1 NTUP 26 25 17 15 14 14 14 15 15 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0P 76-6;  00 (mg/l) [10% or 0.1 mg/l*  1.83 1.23 0.99 0.88 0.79 0.77  Diumn heeding.	ORP (mV) [10 mV]* (W) 77460 -226,2 -233.5 -243.2 -253.2 -265.1	
250 255 300 305 315 315 320 325 5 stabilization (MINI) PLE DESTI	Pump Rate (Linsin.)  100  100  100  100  In criteria for each is/SAMPLING I Wise of	Total Gallone Removed  0.74  0.39  0.52  0.66  0.79  0.92  1.05  1.18  ch field paramete	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celeium) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09 14.89 the readings co	1-556, pH i0.1 unitage 2.76 7.76 7.75 7.82 7.89 7.97 8.04	Mps , Sp. Cond. (ms/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463 0.398	Turbidity (NTU) [10% or 1 NTUP 26 25 17 15 14 14 14 15 15 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0P 76-6;  00 (mg/l) [10% or 0.1 mg/l*  1.83 1.23 0.99 0.88 0.79 0.77  Diumn heeding.	ORP (mV) [10 mV]* (W) 77460 -226,2 -233.5 -243.2 -253.2 -265.1	
250 255 300 305 310 315 320 325 stabilization Marin Ma Marin Marin Marin Marin Ma Marin Marin Marin Marin Marin Marin Marin Marin Marin Marin Marin Marin Marin Marin Marin Marin Marin Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma	Pump Rate (Linsin.)  100  100  100  100  In criteria for each is/SAMPLING I Wise of	Total Gallone Removed  0.74  0.39  0.52  0.66  0.79  0.92  1.05  1.18  ch field paramete	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celetum) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09 14.89 three reactings co	1-556, pH  i0.1 unital? FANWG 7.76 7.76 7.82 7.89 7.97 8.04	Sp. Cond. (mS/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463 0.398  minum interval 51.0.12	Turbidity (NTU) [10% or 1 NTUP 26 25 17 15 14 14 14 15 15 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0P 76-6;  00 (mg/l) [10% or 0.1 mg/l*  1.83 1.23 0.99 0.88 0.79 0.77  Diumn heeding.	ORP (mV) [10 mV]* (W) 77460 -226,2 -233.5 -243.2 -253.2 -265.1	
250 255 300 305 315 315 20 25 stabilization half munition borratory: ared Vis:	Pump Rate (Linsin.)  100  100  100  100  In criteria for each is/SAMPLING I Wise of	Total Gallone Removed  0.74  0.39  0.52  0.66  0.79  0.92  1.05  1.18  ch field paramete	Water Level (R TIC) 10,94 13,15 15,32 16,62 17,62 18,68 19,35 or (three consecutions	Temp. (Celetum) [3%]*  NO R 15.30 15.32 15.15 15.18 15.09 14.89 three reactings co	1-556, pH i0.1 unitage 2.76 7.76 7.75 7.82 7.89 7.97 8.04	Sp. Cond. (mS/cm) (3%)*  WATER 0.426 0.421 0.417 0.411 0.463 0.398  minum interval 51.0.12	Turbidity (NTU) [10% or 1 NTUP 26 25 17 15 14 14 14 15 15 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0P 76-6;  00 (mg/l) [10% or 0.1 mg/l*  1.83 1.23 0.99 0.88 0.79 0.77  Diumn heeding.	ORP (mV) [10 mV]* (W) 77460 -226,2 -233.5 -243.2 -253.2 -265.1	

WELL INCODE	IATION - See I	Dana 1			ng Personnel Date Weather	Sunny	3/08 1/17/h./	0s (+ Br	neze_
VELL INFORM	····	7	1			ı	<u> </u>	, , , , , , , , , , , , , , , , , , , ,	<del></del>
Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	<b>pH</b> [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]*
1330	100	1.32	20.25	14.90	8.08	0.392	//	074	-267
1335	1	1.45	20.77	15.06	8.05	0.387	11	070	-262.
340	•	1.58	21.32	14.99	8.08	0.383	11	0.70	-264.
	5	angled	© 13	40			-		
		- Files							
	***								
									- <del></del>
									· · · · · · · · · · · · · · · · · · ·
									***************************************
		L					s) is listed in each		

	# No. 114-			**************	SHO/GMA N	emo GMA	3/GB P	His Ball	
	y No Background (				Sampling Persor	mel XIC		113 11616	
	v mackground ( M Hendepace ()		,				108		
					. West	her	60's Sor	my, slig	nt breeze
	FORMATION	_					Sample Ti	me lal	) ~ 2
	ronce Point Mer		N	•	1-	r	Sample		- R
r <del>rei</del> gi	ht of Reference Well Dian		Meas, F	rom Grac	<u>te</u>		Duplicate	ID	
S	icreen interval D		14 Name 5:	om Grac	10		MS/M	SD	
	Water Table D		9 Moes. Fr		<u> </u>		Spill Sample	ID OI	
	Well D		Moss, Fr	A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		Require	d Annau	cal Parameters:	<b></b>
	gth of Water Col		- 37			(×)		Cs (Ski, list)	Collected
	ime of Water in opth of Pump/Tui		allons	m TIC		( 3		Ca (Exp. list)	( ) (
	paror i unigeru	owng	Moss. Fro	- 11C	<u></u>	( )		SVOC8	( )
Reference	Point Identificati	<u>on</u> :				( )		:Bs (Total)	( )
	f knner (PVC) Ca					(X)		s (Dissolved) norganics (Total)	( <b>X</b> )
	of Outer (Protect					( )		genics (Dissolved)	( )
Grade/BGS	: Ground Surfae					( )		nide (Dissolved)	( )
Redevelop	Y (N)					( )		nide (Dissolved)	( )
						( )		Ds/PCDFs	( )
						( <b>)</b>		les/Herbicides	( )
EVACUATIO	N INFORMATION					( )		r (Specify)	( X )
	Pump Start Tire Pump Stop Tire	144	ō		Evacuation M	lethod: Bailer	( ) Biaddae	Pump (X	
	nutes of Pumpin   Water Remove	9 435	ullons		Peristattic Pur	mp() s	ubmersible Pump	( ) Other/Sp	ecify ( )
TORRING OF	AAMINES LAGERIALIA	9 / TS 0	WILLE		Pump Type:	<i>AA</i>		, , , , , , , , , , , , , , , , , , , ,	
1	Did Well Go Dry	2 ×				70/a23 C	M-116 - SUJ	tom One	
i	Did Well Go Dry	" Y 💇			Samples colle	cted by same m	ethod as evacuation	fam Ohu	ify)
1	• •	" Y 💇		<u>VSI 55</u>	Samples colle	cted by same m	ethod as evacuatio	in? V N (spec	••
<u> </u>	• •	? Y (1)' Meter Type(s)/	Serial Numbers:	<del>-</del>	Samples colle	#2, H	ACH 210	in? V N (spec	dimete
Time	Water Quality	" Y 💇		Temp.	Samples colle	⇒ Sp. Cond.	ACH 210	OP TURBI	••
Time	Water Quality	Meter Type(s) /	Sorial Numbers:	<del>-</del>	Samples colle	Sp. Cond.	ACH ALO  Turbidity (NTU)	OP TURBLE  DO  (mg/l)	dimete ORP (MV)
	Water Quality Pump Rate	Meter Type(s) / Total Gallons	Sorial Numbers: Water Level	Temp. (Celsius)	Samples colle	⇒ Sp. Cond.	ACH ALO  Turbidity (NTU) [10% or 1 NTU]	OP TURBI	dimete
Time	Pump Rate (L/min.)	Meter Type(s) / Total Gallone Removed	Sorial Numbers: Water Level	Temp. (Celsius)	Samples colle	Sp. Cond.	ACH ALO  Turbidity (NTU) [10% or 1 NTUP	OP TURBLE  DO  (mg/l)	ORP (mv) [10 mv)
Time 1250	Pump Rate (L/min.)  200 200	Meter Type(s) / Total Gallons Removed  0.53	Serial Numbers:  Water Level (ft TIC)	Temp. (Celaius) [3%]*	Samples colle	Sp. Cond. (mS/cm) [3%]*	ACH ALO  Turbidity (NTU) [10% or 1 NTUP	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV)
Time /250 /255 /300	Pump Rate (L/min.)	Meter Type(a) / Total Gallone Removed  0.53  0.79	Sorial Numbers:  Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH (0.1 units)*	Sp. Cond. (ms/cm) (3%)*	ACH ALO Turbidity (NTU) [10% or 1 NTUP 59 19	DO (mg/l) [10% or 0.1 mg/l]*	dimete ORP (mV) [10 mVP
Time /250 /255 /300	Pump Rate (Limin.) 200 200 200	Meter Type(s) /  Total Gallons Removed  0.53  0.79  1.06	Serial Numbers:  Water Level (ft TIC)  6.01  6.01	Tomp. (Coloium) [3%]*	pH j0.1 units 7102 6.55	Sp. Cond. (mS/cm) (3%)*	Turbidity (NTU) [10% or 1 NTUP	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV) 30.0
Time /250 /255 /300 /305	Pump Rate (Limin.) 200 200 200	Meter Type(s)/  Total Gallone Removed  0.53  0.79  1-06  1-16	Sorial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01	Temp. (Celeius) [3%]*	pH i0.1 unital*  7102 6.55 7109	3p. Cond. (ms/cm)   3% *	ACH ALO Turbidity (NTU) [10% or 1 NTUP 59 19	DO (mg/l) [10% or 0.1 mg/l]  7, 41  6, 53  4, 57	onp (mv) [10 mv) 3D.O 19.1 25.8
Time /250 /255 /300 /305 /3/0	Pump Rate (L/min.)  200 200 200 15	7 Y N  Meter Type(a) /  Total Gallone Removed  0.53  0.79  1.06  1.16  1.29	Sorial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01  6.00  6.00	Tomp. (Coloium) [3%]*  14, 31  13, 15  14, 68  16,000	pH   j0.1 units *   7102   6.55   7109   7112	3% °   1,049   1,049	Turbidity (NTU) [10% or 1 NTUP	DO (mg/l) [10% or 0.1 mg/l]*  7, 41  4, 57  4, 38	ORP (MV) (10 mV) (10 m
Time  1250 1255 1300 1305 1315 1320 1325	Pump   Rate   (L/min.)   200   200   25   100   100   150	Meter Type(s) /  Total Gailone Removed  0.53  0.79  /-06  /-16  /-29  /-56  /-76	Serial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01  6.01  6.01  6.01	Temp. (Celeius) [3%]*	pH   (0.1 units)*	39p. Cond. (ms/cm)   (3%)	action an evacuation ACH ALO  Turbidity (NTU) [10% or 1 NTUP  59  / 9  14  10  / 2  11  10	DO (mg/l) (10% or 0.1 mg/l)  7, 41  6, 53  4, 57  4, 38  3, 98	ORP (may) [10 my) 3D.O 19.1 25.8 -34.1
Time  /250  /255  /300  /305  /3/6  /320  1320  The stabilization	Pump Rate (L/min.)  200 200 200 100 100 150 rotheria for each	Meter Type(s)/  Total Gallone Removed  0.53  0.79  /-06  /-16  /-29  /-42  /-56  /-76  /-16  /-16	Sorial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01  6.01  6.01  6.01  6.00  6.00  6.00  6.00  6.00	Temp. (Celeius) [3%]*	pH   (0.1 units)*	39p. Cond. (ms/cm)   (3%)	action an evacuation ACH ALO  Turbidity (NTU) [10% or 1 NTUP  59  / 9  14  10  / 2  11  10	DO (mg/l) (10% or 0.1 mg/l)  7, 41  6, 53  4, 57  4, 38  3, 98	ORP (MV) (10 mV) (10 m
Time  /250  /255  /300  /305  /3/6  /320  335  The stabilization  BSERVATION	Pump Rate (L/min.)  200 200 200 100 150 ISSAMPLING N	Meter Type(s)/  Total Gallons Removed  0.53  0.79  1.06  1.16  1.29  1.42  1.56  1.76  1.76  In field parameter  SETHOD DEVIA	Sorial Numbers:  Water Level (ft TIC)  G.O.I  G.O.I	Temp. (Coloium) [3%]*	pH   (0.1 units)*	39p. Cond. (ms/cm)   (3%)*	Turbidity (NTU) [10% or 1 NTUP	DO (mg/l) (10% or 0.1 mg/l)  7, 41  6, 53  4, 57  4, 38  3, 98	ORP (may) [10 my) 3D.O 19.1 25.8 -34.1
Time  /250  /255  /300  /305  /3/5  /320  3325  The stabilization  BSERVATION	Pump Rate (L/min.)  200 200 200 100 100 150 In criteria for each	Meter Type(s)/  Total Gallons Removed  0.53  0.79  1.06  1.16  1.29  1.42  1.56  1.76  ch field paramete  CLOUNC	Sorial Numbers:  Water Level (ft TIC)  G.O.I  G.O.I	Temp. (Coloium) [3%]*	pH   (0.1 units)*	39p. Cond. (ms/cm)   (3%)*	Turbidity (NTU) [10% or 1 NTUP  59  14  10  12  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  11  11  11  11  11  11  12  11	DO (mg/l) [10% or 0.1 mg/l]*  7, 41  6, 53  4, 57  4, 38  3, 42  okumn heading.	ORP (1947) (10 mV) (10
Time  /250  /255  /300  /305  /3/5  /3/5  1320  3325  The stabilization  SERVATION  1011-101	Pump Rate (L/min.)  200 200 200 100 100 100 150 In criteria for each S/SAMPLING II	Meter Type(s)/  Total Gallone Removed  0.53  0.79  1.06  1.16  1.29  1.42  1.56  1.76  In field parameter  CIRCLE C.	Serial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01  6.00  6.00  6.00  6.00  7.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00	Temp. (Coloium) [3%]*	pH   (0.1 units)*	39p. Cond. (ms/cm)   (3%)*	Turbidity (NTU) [10% or 1 NTUP  59  14  10  12  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  11  11  11  11  11  11  12  11	DO (mg/l) [10% or 0.1 mg/l]*  7, 41  6, 53  4, 57  4, 38  3, 42  okumn heading.	ORP (1947) (10 mV) (10
Time  /250  /255  /300  /305  /3/5  /320  3325  The stabilization  SSERVATION	Pump Rate (L/min.)  200 200 200 100 100 100 150 In criteria for each S/SAMPLING II	Meter Type(s)/  Total Gallone Removed  0.53  0.79  1.06  1.16  1.29  1.42  1.56  1.76  In field parameter  CIRCLE C.	Serial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01  6.00  6.00  6.00  6.00  7.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00	Temp. (Coloium) [3%]*	pH   (0.1 units)*	39p. Cond. (ms/cm)   (3%)*	Turbidity (NTU) [10% or 1 NTUP  59  14  10  12  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  11  11  11  11  11  11  12  11	DO (mg/l) (10% or 0.1 mg/l)  7, 41  6, 53  4, 57  4, 38  3, 98	ORP (1947) (10 mV) (10
Time  /250  /255  /300  /305  /3/5  /320  /325  The stabilization  SERVATION  (VS1 (CO/C)	Pump Rate (Limin.) 200 200 200 150 100 150 rotteria for each (S/SAMPLING III	Meter Type(s)/  Total Gallone Removed  0.53  0.79  1.06  1.16  1.29  1.42  1.56  1.76  In field parameter  CIRCLE C.	Serial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00	Temp. (Coloium) [3%]*	pH   (0.1 units)*	39p. Cond. (ms/cm)   (3%)*	Turbidity (NTU) [10% or 1 NTUP  59  14  10  12  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  11  11  11  11  11  11  12  11	DO (mg/l) [10% or 0.1 mg/l]*  7, 41  6, 53  4, 57  4, 38  3, 42  okumn heading.	ORP (1947) (10 mV) (10
Time  /250  /255 /300 /305 /3/5 /3/5 /320 /325 The stabilization  SERVATION  VS1 CO(6)	Pump Rate (Limin.) 200 200 200 150 100 150 rotheria for each sysampling in purge Connect red f	Meter Type(s)/  Total Gallone Removed  0.53  0.79  1.06  1.16  1.29  1.42  1.56  1.76  In field parameter  CIRCLE C.	Serial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01  6.00  6.00  6.00  6.00  7.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00	Temp. (Coloium) [3%]*	pH   (0.1 units)*	39p. Cond. (ms/cm)   (3%)*	Turbidity (NTU) [10% or 1 NTUP  59  14  10  12  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  11  11  11  11  11  11  12  11	DO (mg/l) [10% or 0.1 mg/l]*  7, 41  6, 53  4, 57  4, 38  3, 42  okumn heading.	ORP (1947) (10 mV) (10
Time  /250  /255  /300  /305  /3/5  /3/5  1320  3325  The stabilization  SERVATION  YS1  CO(6)  MAPLE DESTIR  Laboratory: -	Pump Rate (Limin.) 200 200 200 150 100 150 rotheria for each (S/SAMPLING III) SG S	Meter Type(s)/  Total Gallone Removed  0.53  0.79  1.06  1.16  1.29  1.42  1.56  1.76  In field parameter  CIRCLE C.	Serial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01  6.00  6.00  6.00  6.00  7.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00	Temp. (Coloium) [3%]*	pH   (0.1 units)*	39p. Cond. (ms/cm)   (3%)*	Turbidity (NTU) [10% or 1 NTUP  59  14  10  12  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  11  11  11  11  11  11  12  11	DO (mg/l) [10% or 0.1 mg/l]*  7, 41  6, 53  4, 57  4, 38  3, 42  okumn heading.	ORP (1947) (10 mV) (10
Time  /250 /255 /300 /305 /3/6 /3/5 /325 The stabilization SERVATION / VSI (	Pump Rate (Limin.) 200 200 200 150 100 150 rotheria for each (S/SAMPLING III) SG S	Meter Type(s)/  Total Gallone Removed  0.53  0.79  1.06  1.16  1.29  1.42  1.56  1.76  In field parameter  CIRCLE C.	Serial Numbers:  Water Level (ft TIC)  6.01  6.01  6.01  6.01  6.00  6.00  6.00  6.00  7.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00	Temp. (Celeium) [3%]*	pH   (0.1 units)*	3p. Cond. (ms/cm)   3%/r	Turbidity (NTU) [10% or 1 NTUP  59  14  10  12  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  10  11  11  11  11  11  11  11  12  11	DO (mg/l) [10% or 0.1 mg/l]*  7, 41  6, 53  4, 57  4, 38  3, 42  okumn heading.	ORP (1947) (10 mV) (10

				Samp	ling Personnel	KIC 6		Pi++s Re10	
			•		Date Weather	9	113/08	(	
WELL NICOD	MATION O.	<b></b>			Weather	-Sm	1 tel	25	
WELL INFOR	MATION - See	·	T	<del>,</del>	7	<del>, , , , , , , , , , , , , , , , , , , </del>		<del></del>	<del></del>
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)	DO (mg/l) [10% or 0.1 mg/l]*	(1 (10
1330	150	1-96	6,01	12.39	7.11	1,043	12	3,21	1
1333	150	2.08	6.01	12.13	7.05	1.031	11	2,91	- 5
1336	150	2.20	6,01	12.36		1,027	. 9	3~34	- 4
1339	150	2.32	6.01	12,81	1,08	1.031	8	2.41	- 5
1342	150	2.44	6.01	12,72	7,13	1,027	8	234	-6
1345	150	2.55	6,01	12.53	7.15	1,022	7	2, 23	- s
1348	150	2.67	6,01	12.39	7,15	1.00	B	2,04	-6
1351	150	2.79	6,01	13.12	7.16	1,019	7	1.89	- 63
1354	150	2.91	6.01	13.02	7,17	1.022	7	1,75	-6
1357	150	3.03	6.01	12,78	7,18	1,020	6	1,77	- 6
13	150	3-15	6.01	12,68	7,19	1.019	6	1,70	
14,03		·	<del>&gt;</del>	Sam	niee		103 K		
	***	·							
	****			-					
									~
* The stabilization	criteria for eac	ch field paramete	(three consecu	utive readings co	lected at 3- to 5	-minute intervals	) is listed in each (	column heading.	
OBSERVATIONS	VOAMPLING M	IE I HUD DEVIAT	IONS			VI	<del>-                                      </del>		1

<b>3</b>	Well No.	115 A					1112		
	Key No.				She/Ghla N		MAS		
	PID Background	(ppm)	<del></del>		Sumpling Perso		RAB		
	Well Headspace				,	Date	5/15/08		***************************************
		(P-10-1-1)		<del></del>	Wea	ther	104 dy 1	45th M	d 505
WELL	INFORMATION						· /	0 01	
	leference Point M	arkado V i	(a)				Sample 1	ime Ab.	1033
	eight of Reference	, ,	27	000.			Sampl	D 1/5/	
	Well Dis		// Moss. Fro	m growi	<u>nd</u> (14',		Duplicat		
	Screen Interval		777	V			MSA		
	Water Table		7/ Moss. From	ייושים ח	<u>J</u>		Spill Sample		
		Depth 42	Meas, From	n _//C	(14',	/	,		
,	ength of Water Co		28 Meas, From	n <u> </u>		Required	d Analy	ical Parameters:	Collected
	olume of Water in	West 5 6 7	<u>6</u>			( <b>X</b> )		Cs (Std. let)	( M.
intoire	Depth of Pump/T	703			. /	ر د شر ع	,	Ca (Exp. list)	` <b>^</b>
	Cobat of Calibra	ubing $38a5$	Mess. Fron	9500	NEXT	( )		SVOC.	( )
Rafaran	ce Point Identifice	u.		V		( )	P	CBs (Total)	( )
	p of Inner (PVC) C					( )		is (Dissolved)	( )
	op of Outer (Prote					( )		norganica (Total)	( )
	GS: Ground Surfa					( )	Metals/Inc	rganics (Dissolved)	( )
	GO. GIOUNI SUN					( )	EPA Cvi	nide (Dissolved)	( )
Redevek	op? Y (N)					( )	PAC CW	mide (Dissolved)	( )
						( )		DDs/PCDFs	( )
						( )		des/Herbicides	( )
						(X)		M Attenuation	( )
EVACUA.	TION INFORMAT	ION .				( <b>^</b>		or (Specify)	$(\mathbf{X})$
	Pump Start Ti	/3///						a (opoury)	( )
2	Pump Stop Ti	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~							
	Minutes of Pumpi	The state of the s		•	Evacuation N	Aethod: Bailer	( ) Sladder	Pump ( )	
	of Water Remov		7 <del></del>		Peristaltic Pu		ibmersible Pump	-	
VOLUME	Did Weil Go Dr		<u>con</u>		Pump Type:	George	un 2	( ) Other/S	pecify ( )
,	DIG WEE GO DE	y? Y (N)			Samples colle		ethod as evacuati	on? Ø N (spe	
	Makes Oronite		_	11/2 1	21 1111			- 1- (	• •
	A series (*CHRW)	/ wecor Type(s) /	Serial Numbers:	1510	3446	1 AL	Hach has	Similar 21	OP
	Pump	T			6MPS				
Time	Rate	Total Gallone	Water	Temp.	рH	Sp. Cond.	Turbidity	DO	ORP
	(L/mies.)		Level	(Colsius)		(hnS/cm)	(NTU)	(mg/l)	1 1
BILL	1:-2 /"	Removed	(N TIC)	[3%].	(0.1 units)*	[3%]*	[10% or 1 NTU]*	[10% or 0.1 mg/l]	(mV)
1372	175		ピックス		~		E' 2		1.0
1950	150	0.20	8 27		<u> </u>	-	-22		
955	150		1/20				40		
100	100.	0.40	18.32	1/oto	V 9.001	4 Shows	1 11	197.	1 171
1000	150	0-59	827	9 011	7/22	1 may	Ju- 7/00	J Hurry	cell
100	1/50		0.32	0,94	7,220	0,3100	123	5.ZOU	-119 8
1000	150	0.79	18.32	863	7.36	0.309		201	1010
1010	150	0.99	0 72	2 7	7/12	(1000)	12	3.7+	120.5
1016	1/50		0000	0000	T.4+	0.308	10	3.81	-1112
1015	1150	1.19	8.321	8.63	2521	0 3/10	7	3 00	1160
1000				2000	110	0,000	7	D.07	-112.3
	150	129	0 211	// / Al					
TUOLU	150	1.39	8,32 8	3.60	7.65	0.308	6	3.96	111
The stabiliza	tion criteria for ea	ch field paramete	8,32 E	3.60 e readinga,co	F 65	0,308	6.	3.96	-116.8
	ition criteria for ea DNS/SAMPLING I	ch field paramete	8,32 8 or (three consecutive TIONS	3.60 readings co	F 65   Hected at 3- to 5	0,308	is listed in each of	3 96 Dolumn heading.	-116.8
The stabiliza	ition criteria for ea DNS/SAMPLING I	ch field paramete		1. tial	Hocted at 3- to 5	0,308 intervale blade su	is listed in each of spended pa	3,96   John heading.	111
	ition criteria for ea DNS/SAMPLING I	ch field paramete		residence of	F. 65   Nected at 3- to 5	0:308 -minuto intervale black su	is listed in each of	3.96 olumn heading.	-116.8
	ition criteria for ea DNS/SAMPLING I	ch field paramete		utial,	Fo 65   Hected at 3- to 5 DUNGE -	0:308 minute intervale black su	is listed in each of spended pa	3,96 to the state of the state	-116.8
	ition criteria for ea DNS/SAMPLING I	ch field paramete		utial,	F. 65   Hoctod at 3- to 5 DUNGE -	0:308 minuto intervale blada su	is listed in each of spended pa	3.96 - Dolumn handing.	-116.8
tooland a	on criteria for each on system of the Y.	ch field paramete		utial	F. 65   Hoctod at 3- to 5 DUNGE -	0:308 Impute intervale blade su	is listed in each of spended pa	3.96 + odumn hooding.	-116.8
AMPLE DEST	tion criteria for each constraint for each constraint for the second c	ch field paramete		B.60 e reedings co Will all	F. 65   Nocted at 3- to 5 DWYSC -/	0:308 Impute intervale blade su	is listed in each of spended pa	3.96 polymn hounding.	-116.8
AMPLE DEST	tion criteria for each constraint of the Yung of the Y	ch field paramete		B.60 e reedings co Will N	F. 65   Nocted at 3- to 5 DWYSC -/	0:308 Inique intervale black su	is listed in each of spended pa	3.96 polymn hounding.	-116.8
AMPLE DEST	tion criteria for each constraint of the Y.  TINATION  SGS  UPS	ch field paramete		B.GO e residings co Will N	F. 65   Nocted at 3- to 5 DWYSC -/	0:308 Inique intervale black su	spended pa	indes ffi	-116.8
AMPLE DEST	tion criteria for each constraint of the Y.  TINATION  SGS  UPS	ch field paramete		uttiss <sub>j</sub>	nurge -	blaye su	spended pa	3.96 to the second of the seco	-116.8
AMPLE DEST	tion criteria for each constraint of the Y.  TINATION  SGS  UPS	ch field paramete		uttiss <sub>j</sub>	F. 65   Nocted at 3- to 5 DINYSC - 1	blaye su	spended pa	indes ffi	-116.8

WELL INFOR	MATION - See	Page 1			Weather	Cloude (	Mid	50s	
Time	Pump Rate (L/min.)	Total Gallons	Water Level	Temp. (Celsius)	рH	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	T
1025	150	Removed  /- 5 9	(ft Tic)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]*	[10% or 0.1 mg/l]*	
1030	7	T	0.30	8.62	T. +1	0.308	_5'	3.99	-/
1033	-1	1.78	0.22	0.62	t.tt	0.308	<del>-4,</del>	4.04	-/
1000		7-70	8.32	8.64	7.80	0.308	_4	4.04	-/:
			5any	led @	103.	}			
									<del> </del>
	***								····
								<u> </u>	
									***************************************
									<del></del>
stabilization c	riteria for each	flekt parameter /	three consequities	un rondicas a "			is listed in each co		

	Background (; Headepace (;	pm)	c-31=		Sampling Perso			- Albarel	
Well					•				
			~			Date5/	15/08		
MELL INFO	-				. Wes	ther	S	DS, eve	uccof
							Sample 1		00
	once Point Meri of Reference I	•	N			r	Sampi		11513
, rengin	Well Diam		Mons.	From			Duplicat	***************************************	
Scr	reen Interval D			From Grow	. 1		MSA		
1	Water Table De	11.51	Meas. F	rom 7/4	<u>^4</u>		Spilt Sample	ID	
l awart	Well Do		Meas. F	rom 7/C		Require	d Anak	tical Parameters:	<b>.</b>
	of Water Colo Te of Water in V		gailon			( )		OCs (Std. list)	Collecte
Intaka Dept	th of Pump/Tub	ing ~ /3,5		rom Ground		( ' 5		Ca (Exp. list)	( ~ )
				ON CONNE		( )		SVOC#	( )
	xint Identificatio					( )		CBs (Total)	( )
	nner (PVC) Car Outer (Protecti					( )		ts (Dissolved) norganics (Total)	( )
	Outer (PTONICS Ground Surfac					( )	Motals/Inc	rganica (Dissolved	) ( )
	_					( )	EPA Cya	nnide (Dissolved)	( )
edevelop?	Y (N)					( )		anide (Dissolved)	( )
						( )		DDs/PCDFs	( )
						(بر)		des/Herbicides al Atlenuation	(~1)
ACUATION	INFORMATIO					( )		er (Specify)	( ~ )
	INTURBATIO	N							
	ump Start Time		-						. ,
Pi Pi	ump Start Time ump Stop Time	0945			Function 1	dathad 19-11-			,
Pi Pi Minu	ump Start Time ump Stop Time tea of Pumping	0945		i	Evacuation &			Pump ( )	, ,
P Pi Minu olume of W	ump Start Time ump Stop Time tes of Pumping fater Removed	0945 115 4.5gul	<u></u>	+	Evacuation M Peristatic Pu Pump Type:	mp (X) s	ubmersible Pump		(Specify ( )
Pi Minu lume of W	ump Start Time ump Stop Time tea of Pumping	0945 115 4.5 qul	<u> </u>	b	Peristatic Pu Pump Type:	Geo Pu	ubmersible Pump	( ) Other/	
Pi Minur Jolume of W Dic	ump Start Time ump Stop Time tea of Pumping fater Removed d Well Go Dry? " : Water Quality I	0945 118 4-590 V	DNJ Serial Numbers:		Peristatic Pu Pump Type:	mp X) s Geo Pu ected by same m	ubmersible Pump	( ) Other/	
Pi Minur Olume of W Dic	ump Start Time ump Stop Time tes of Pumping fater Removed d Well Go Dry? Water Quality I	0945 115 4-5 qu.l Y N	Serial Numbers:	Temp.	Peristatic Pur Pump Type: Samples colle	mp X) s Geo Pu ected by same m	ubmersible Pump	() Other/ on? © N (sp	ecity) 2100P Tu
Pi Minur Minurne of W Dic	ump Start Time ump Stop Time tea of Pumping fater Removed d Well Go Dry? " : Water Quality I	O945 LIGO 115 4-5 qu. Y N  Meter Type(s) /  Total Gallone	Serial Numbers: Water Level	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle	Geo Pueced by same m	ubmersible Pump  Comp 2  eethod as evacuation  Turbidity (NTU)	Other/ On? O N (sp  Hach  DO  (mg/i)	CIDOP Tu
Printer of Winume of Windows Dick	tump Start Time tump Stop Time tes of Pumping fater Removed d Well Go Dry? Water Quality I Pump Rate (L/min.)	O945 LIST 115 4-5 qu Y N  Meter Type(s) /  Total Gallone Removed	Serial Numbers: Water Level (ft TIC)	Temp. (Colsius) [3%]*	Peristatic Pur Pump Type: Samples colle O 3 (1) SG-MPJ	Sp. Cond. (ms/cm) [3%]*	ubmersible Pump  Comp 2  eethod as evacuation  Turbidity (NTU)	Other/ On? O N (sp	CIDOP Tu
Pine Property Propert	ump Start Time ump Stop Time tes of Pumping fater Removed d Well Go Dry?  Water Quality !  Pump Rate (L/min.)	O945 LIGO 115 4-5 qui Y N  Meter Type(s)/ Total Gallone Removed D-26	Water Level (ft TIC)	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle	Geo Pueced by same m	ubmersible Pump  Comp 2  eethod as evacuation  Turbidity (NTU)	Other/ On? O N (sp  Hach  DO  (mg/i)	CIDOP Tu
Pin Pin Minur of Windows Olume of Windows Olime of Window	tump Start Time transport Time tea of Pumping fater Removed d Well Go Dry? Water Quality I  Pump Rate (L/min.) 200	O945 LIGO 115 4-5 qu. Y N  Meter Type(s)/ Gailone Removed 0-26 0-39	Water Level (ft TIC)	Temp. (Colsius) [3%]*	Peristaltic Pu Pump Type: Samples colls  O G C  SG - M P J  pH  [0.1 units]*	Sp. Cond. (ms/cm) [3%]*	Turbidity [10% or 1 NTU]	Other/ On? O N (sp  Hach  DO  (mg/i)	CIDOP Tu
Pine Pine	tump Start Time transport Time tea of Pumping fater Removed d Well Go Dry? Water Quality I  Pump Rate (L/min.) 200	O945 L/G/O 115 4-5 qull Y N  Actor Type(s)/  Total Gallone Removed O-26 O-39 O.99	Water Level (ft TIC)	Temp. (Colsius) [3%]*	Peristatic Pu Pump Type: Samples colls O 3 0 0 SG-MPJ pH [0.1 units]*	Sp. Cond. (ms/cm)	Turbidity (NTU) [10% or 1 NTU]	() Other/ on? ② N (sp  // c.c. h  DO (mg/i) [10% or 0.1 mg/i	ORP (mV)
Pine Pine Pine Pine Pine Pine Pine Pine	tump Start Time transport Time tea of Pumping fater Removed d Well Go Dry? Water Quality I  Pump Rate (L/min.) 200	O945 LIGO 115 4-5 qu. Y N  Meter Type(s)/ Gailone Removed 0-26 0-39	Water Level (ft TIC)  11. 53  11. 64	Tomp. (Colorus) [3%]*	Peristatic Pur Pump Type: Samples colls O 3 C 5 S - M P J pH [0.1 units]*	Sp. Cond. (ms/cm) [3%]*	Turbidity (NTU) (10% or 1 NTUP	() Other/ on? © N (sp  // a.c.h  DO (mg/i) [10% or 0.1 mg/	ORP (mV) [10 mV]
Pine Pine Pine Pine Pine Pine Pine Pine	tump Start Time transport Time tea of Pumping fater Removed d Well Go Dry? Water Quality I  Pump Rate (L/min.) 200	0945 115 4.5 qu. Y N Meter Type(s) / Total Gallone Removed 0.26 0.39 0.99 /-19	Water Level (RTC) 11.53 11.64 11.65	7,89	Peristatic Pur Pump Type: Samples colls O 3 C 5 S - M P J pH j0.1 units p - C 5 S - C S S C S S C S S C S S C S S C S S C S S C S S C S S C S S C S S C S S C S S C S S C S S S C S S S C S S S C S S S C S	Sp. Cond. (ms/cm) [3%]*  0,556  0,554	Turbidity (NTU) [10% or 1 NTUP  98	() Other/ on? ② N (sp  // c.c. h  DO (mg/i) [10% or 0.1 mg/i	ORP (mV)
Minur folume of W Dic	tump Start Time transport Time tea of Pumping fater Removed d Well Go Dry? Water Quality I  Pump Rate (L/min.) 200	0945 115 4-5 qu. Y N Meter Type(s)/ Gallone Removed 0-26 0-39 0-99 1-19 1-38	Water Level (ft TIC)  II. 53  II. 64  II. 65  II. 65	Tomp. (Colsius) [3%]*   7189  71.52  71.44	Peristatic Pur Pump Type: Samples colls  O3 CT SG-MPJ pH i0.1 units*  C. R.3 C. R.B Le. R.9	Seco Pu   Geo Pu   Seco Pu   Second.   Second.   (mS/cm)   3% *   O.55/2   O.55/4	Turbidity (NTU) [10% or 1 NTU]  981	() Other/ on? © N (sp  // a.c.h  DO (mg/i) [10% or 0.1 mg/	ORP (mV) [10 mV]
Time  150 05 10 155	tump Start Time transport Time tea of Pumping fater Removed d Well Go Dry? Water Quality I  Pump Rate (L/min.) 200	0945 115 4.5 qu. Y N Actor Type(s)/ Total Gallone Removed 0.2 G 0.39 0.19 1.19 1.38 1.58	Water Level (RTC)  11.64  11.65  11.65	Tomp. (Colorus) [3%)*   7.89  7.52  7.94	Peristatic Pur Pump Type: Samples colls  O3 CT SG-MPJ pH i0.1 units*  C. R.3 C. R.B Le. R.9	Sp. Cond. (ms/cm) [3%]*  0,556  0,554	Turbidity (NTU) [10% or 1 NTUP  98	() Other/ on? P N (sp  // c.c.h  DO (mg/l) [10% or 0.1 mg/l	ORP (mV) [10 mV]  72,2 55.4 37.7
Time 150 05 10 05 10 05	tump Start Time tump Stop Time tes of Pumping fater Removed d Weil Go Dry? Water Quality I  Pump Rate (L/min.) 200 200 /570.	0945 115 4.5 qu. Y N Meter Type(s)/ Total Gailone Removed 0.26 0.39 0.99 1.19 1.38 1.58 1.78	Water Level (ft TIC)  II. 53  II. 64  II. 65  II. 65	Tomp. (Colsius) [3%]*   7189  71.52  71.44	Peristatic Pur Pump Type: Samples colls  O3 CT SG-MPJ pH i0.1 units*  C. R.3 C. R.B Le. R.9	Seco Pu   Geo Pu   Seco Pu   Second.   Second.   (mS/cm)   3% *   O.55/2   O.55/4	Turbidity (NTU) [10% or 1 NTU]  981	() Other/ on? (D) N (sp  Hach  DO (mg/i) [10% or 0.1 mg/i	ORP (mV)  [10 mV]  72,2  55,4  37,0  -100,2
Time   50   0   5   10   15   30   15   150   15	tump Start Time tump Stop Time tea of Pumping fater Removed d Weil Go Dry? Water Quality I  Pump Rate (L/min.) 200 200 /570.	0945 115 4.5 qu. Y (N) Heter Type(s)/ Gailone Removed 0.26 0.38 0.99 1.19 1.38 1.58 1.78	Water Level (RTC)  11.53  11.64  11.65  11.65  11.65  11.65	Tomp. (Colorus) (3%)*   7.89  7.52  7.44  7.47  7.51	Peristatic Pur Pump Type: Samples colla CSG-MPJ pH j0.1 units photographic CSG-MPJ pho	Sec   Pue	Turbidity (NTU) [10% or 1 NTUP  981	() Other/ on? P N (sp  // C. h  DO (mg/l) [10% or 0.1 mg/l	ORP (mV) [10 mV]  72,2 55.4 37.7

				SKOOKDWA	TER SAMPL	ING LOG				
Well No		115B			ite/GMA Name ling Personnel	-GH	A3/GE KIC	PHSPe	D	
					Date	5/15/	08			
				Weather Occarcost, 505						
WELL INFOR	MATION - See	Page 1					•			
	Pump	Total	Water	Temp.	рН	Sp. Cond.	Turbidity	DO	COD	
Time	Rate	Gallons	Level	(Celsius)		(mS/cm)	(NTU)	(mg/l)	ORP (mV)	
1 = 0	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]*	[10% or 0.1 mg/l]*		
1035	150	2.18	11.65	7,45	683	0530	1	210	-140	
1040	150	2.38	11.64	7.49	6.83	0.527	1	1,97	-134.	
1045	150	2.57	11,64	7,43	6.83	0.505	a	1.89	-1410	
1050	150	2.77	11,64	7.49	6.84	0,521	7	1.83	-136,	
1055	150	2.97	11.64	7,51	6,85	0.519	て	1, 77	-132,	
1100	150	3.17	11,64	7.41	6.85	0,517	2		1	
1105	150	3.37	11.64	7,46	6.86	0,515	7_		73/, 4	
1108	150	3.49	11.64	7,44	6.86	1 1			130,0	
Sum	(100)	0	110	-77 (-1	6.00	0,514	_2_	1.60	-136,	
- LAVY										
									•	
									-	
						-				
							· .			
he stabilization	oritorio fari a co	h 6-14								
SERVATIONS	SAMPI ING M	n fleid parameter ETHOD DEVIAT	((Inree consecut	tive readings co.	llected at 3- to 5	i-minute intervals	) is listed in each o	column heading.		
							***************************************	·····	······································	
						· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		

# **ARCADIS**

## Appendix D

Data Validation Report

Appendix D
Groundwater Sampling Data Validation Report
Groundwater Management Area 3 – Spring 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 between April and May 2008 as part of groundwater quality monitoring activities conducted at Groundwater Management Area 3, located within 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. (formerly Paradigm Analytical Labs, Inc.) of Wilmington, North Carolina. Data validation was performed for five PCB samples, 36 volatile organic compound (VOC) samples, eight semi-volatile organic compound (SVOC) samples, 25 metal samples, 25 anions samples, 25 RSD-175 samples, 25 alkalinity samples, and 25 dissolved organic carbon (DOC) 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 (as submitted by GE on March 30, 2007 following approval by EPA on March 15, 2007);
- Region I Tiered Organic and Inorganic Data Validation Guidelines, USEPA Region I (July 1, 1993);
- 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 tabulated summary of the samples subject to Tier I and Tier II data review is presented in the following table.

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

	Tier I Only						
Parameter	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	Total
PCBs	0	0	0	3	1	1	5
VOCs	0	0	0	24	2	10	36
SVOCs	0	0	0	7	1	0	8
Metals	0	0	0	22	2	1	25

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

_	Tier I Only					Total	
Parameter	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	Total
EPA 300.0	0	0	0	22	2	1	25
RSK-175	0	0	0	22	2	1	25
Alkalinity	0	0	0	22	2	1	25
DOC	0	0	0	22	2	1	25
Total	0	0	0	144	14	16	174

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.

**Compounds Qualified Due to Initial Calibration Deviations (RRF)** 

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,2-Dibromo-3-chloropropane	36	J
	1,4-Dioxane	36	J
	2-Butanone	31	J
	2-Chloroethylvinylether	30	J
	Acetone	36	J
	Acetonitrile	36	J
	Acrolein	36	J
	Acrylonitrile	31	J
	Isobutanol	36	J
	Methacrylonitrile	10	J
	Propionitrile	36	J
	trans-1,4-Dichloro-2-butene	36	J

### Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	4-Phenylenediamine	1	J
	Hexachlorocyclopentadiene	1	J

Several of the organic compounds (including the compounds presented in the above tables detailing RRF deviations) exhibit instrument response factors (RFs) below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion, which does not specify minimum RFs for these compounds. These compounds were analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-detect compound results associated with a RF less than the minimum value of 0.05 are to be rejected (R). However, in the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detect sample results were qualified as estimated (J).

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.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	4	J
	2-Butanone	5	J
	2-Hexanone	3	J
	Acetone	10	J
	Acetonitrile	9	J
	Bromomethane	28	J
	Chloroethane	23	J
	Methylene Chloride	3	J
SVOCs	1-Naphthylamine	1	J
	2,4-Dinitrophenol	1	J
	2-Naphthylamine	1	J
	4-Nitroquinoline-1-oxide	1	J
	4-Phenylenediamine	1	J
	Hexachlorocyclopentadiene	1	J
	Hexachlorophene	1	J
	Methapyrilene	1	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method PQL. These standards are required to have recoveries between 80% and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries were outside these control limits, the affected samples with detected results at or near the PQL concentration (i.e., less than three times the PQL) were qualified as estimated (J). The analyte that did not meet CRDL criteria and the number of samples qualified due to those deviations are presented in the following table.

### **Analyte Qualified Due to CRDL Standard Recovery Deviations**

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Iron	16	J

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

### **Compounds Qualified Due to MS/MSD Recovery Deviations**

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	1	R
RSK-175	Methane	1	J

MS/MSD sample analysis recovery criteria for organics require that the RPD between the MS and MSD recoveries be less than the laboratory-generated QC acceptance limits specified on the MS/MSD reporting form. The compounds that exceeded the RPD limit and the number of samples qualified due to deviations are presented in the following table.

### **Compounds Qualified Due to MS/MSD RPD Deviations**

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	All Aroclors	1	J

Blank action levels for compounds/analytes detected in the blanks were calculated at five times the blank concentrations. Detected sample results that were below the blank action level were qualified with a "U." The compounds/analytes detected in method/analytical blanks which resulted in qualification of sample data, along with the number of affected samples, are presented in the following table.

### **Compounds/Analytes Qualified Due to Blank Deviations**

Analysis	Compound/Analyte	Number of Affected Samples	Qualification
VOCs	Methylene Chloride	2	U
	Xylenes (total)	1	U
Miscellaneous	Dissolved Organic Carbon	2	U
	Chloride	1	U

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 compound that did not meet LCS/LCSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

#### Compound Qualified Due to LCS/LCSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification		
VOCs	Methylene Chloride	3	J		

LCS/LCSD sample analysis recovery criteria for organics require that the RPD between the LCS and LCSD recoveries be less than the laboratory-generated QC acceptance limits specified on the LCS/LCSD reporting form. The compound that exceeded the RPD limit and the number of samples qualified due to deviations are presented in the following table.

Compound Qualified Due to LCS/LCSD RPD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Iodomethane	4	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	99.9	A total of one sample result was rejected due to an MS/MSD recovery deviation.				
SVOCs	100	None				
PCBs	100	None				
Metals	100	None				

**Data Usability** 

Parameter	Percent Usability	Rejected Data
EPA 300.0	100	None
RSK-175	100	None
Alkalinity	100	None
DOC	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. For this analytical program, 0.16% of the data required qualification due to LCS/LCSD RPD deviations and 0.33% of the data required qualification due to MS/MSD RPD deviations. None of the data required qualification due to field duplicate 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, CRDL samples, and surrogate compound recoveries. For this analytical program, 19.9% of the data required qualification due to instrument calibration deviations, 0.12% of the data required qualification due to MS/MSD recovery deviations, and 0.66% of the data required qualification due to CRDL recovery deviations. None of the data required qualification due to surrogate compound recovery deviations or 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 between April and May 2008 were analyzed by EPA SW-846 method 8082 for PCBs, 8260 for VOCs, 8270 for SVOCs, 6000/7000 for metals, 300.0 for anions, RSK-175 for methane, ethane, and ethene, 2320B for alkalinity, and 9060A for dissolved organic carbon.

### 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 99.9% 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.

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample											
Delivery Group No. CBs	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
35-658	82B-R (Filtered)	5/2/2008	Water	Tier II	Yes	Aroclor-1016	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	T
00 000	(,	0/2/2000	*******	110111	100	Aroclor-1221	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1232	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1242	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1248	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1254	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1260 Total PCBs	MS/MSD RPD MS/MSD RPD	34.5% 34.5%	<12% <12%	ND(0.000068) J ND(0.000068) J	
135-658	GMA3-DUP-3 (Filtered)	5/2/2008	Water	Tier II	No	Total PCBs	M9/M9D RPD	34.5%	<12%	ND(0.000068) J	Duplicate of 82B-R (Filtered)
135-669	114A (Filtered)	5/13/2008	Water	Tier II	No						Duplicate of 62B-R (Filtered)
135-669	114B-R (Filtered)	5/13/2008	Water	Tier II	No						
135-673	GMA3-RB-1 (Filtered)	5/15/2008	Water	Tier II	No						
etals							<u> </u>				<u> </u>
135-656	39B-R (Filtered)	4/30/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	
135-656	39D-R (Filtered)	4/30/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0401 J	
135-656	43A (Filtered)	4/30/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	
135-656	43B (Filtered)	4/30/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0246 J	Dualisate of ADD (Filtered)
135-656 135-657	GMA3-DUP#1 (Filtered) 16A (Filtered)	4/30/2008 5/1/2008	Water Water	Tier II	Yes No	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0199 J	Duplicate of 43B (Filtered)
135-657	16A (Filtered) 16B-R (Filtered)	5/1/2008	Water	Tier II	No Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0246 J	
135-657	16C-R (Filtered)	5/1/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	
135-657	2A (Filtered)	5/1/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	
135-657	GMA3-DUP2 (Filtered)	5/1/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	Duplicate of 2A (Filtered)
135-659	89A (Filtered)	5/5/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	129.0%	80% to 120%	ND(0.100) J	
135-659	89B (Filtered)	5/5/2008	Water	Tier II	No						
135-659	89D-R (Filtered)	5/5/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	129.0%	80% to 120%	0.141 J	
135-661	111A-R (Filtered)	5/6/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0432 J	
135-661	39E (Filtered)	5/6/2008	Water	Tier II	No						
135-662	95B-R (Filtered)	5/8/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0214 J	
135-669 135-669	114A (Filtered) 114B-R (Filtered)	5/13/2008 5/13/2008	Water Water	Tier II	No No						
135-669	111B-R (Filtered)	5/14/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	130.0%	80% to 120%	0.0449 J	
135-671	90A (Filtered)	5/14/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	130.0%	80% to 120%	0.0211 J	
135-671	90B (Filtered)	5/14/2008	Water	Tier II	No	li Oii	ONDE Glandard 7010	150.070	0070 to 12070	0.02110	
135-671	95A (Filtered)	5/14/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	130.0%	80% to 120%	ND(0.100) J	
135-673	115A (Filtered)	5/15/2008	Water	Tier II	No					(	
135-673	115B (Filtered)	5/15/2008	Water	Tier II	No						
135-673	GMA3-RB-1 (Filtered)	5/15/2008	Water	Tier II	No						
0Cs											
135-656	39B-R	4/30/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(2.0) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(40) J	
						2-Butanone 2-Chloroethylvinylether	ICAL RRF ICAL RRF	0.035 0.018	>0.05 >0.05	ND(2.0) J ND(5.0) J	
						Acetone	ICAL RRF	0.018	>0.05	ND(3.0) J ND(2.0) J	
						Acetonie	ICAL RRF	0.009	>0.05	ND(8.0) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(10) J	
						Acrylonitrile	ICAL RRF	0.03	>0.05	ND(10) J	
						Acrylonitrile Bromomethane	CCAL %D	0.03 48.0%	<25%	ND(0.40) J	
						Bromomethane Chloroethane	CCAL %D CCAL %D	0.03 48.0% 54.2%	<25% <25%	ND(0.40) J ND(0.40) J	
						Bromomethane Chloroethane Isobutanol	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003	<25% <25% >0.05	ND(0.40) J ND(0.40) J ND(20) J	
						Bromomethane Chloroethane Isobutanol Propionitrile	CCAL %D CCAL %D ICAL RRF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011	<25% <25% >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J	
						Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene	CCAL %D CCAL %D ICAL RRF ICAL RRF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025	<25% <25% >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	CCAL %D CCAL %D ICAL RRF ICAL RRF ICAL RRF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011	<25% <25% >0.05 >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J	
35-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane	CCAL %D CCAL %D ICAL RRF ICAL RRF ICAL RRF ICAL RRF ICAL RRF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J ND(0.10) J	
35-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone	CCAL %D CCAL %D CCAL RF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5%	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 <25%	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(8.0) J ND(0.0050) J ND(0.10) J ND(0.10) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propinitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone	CCAL %D CCAL %D CCAL RF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6%	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <0.05 >0.05 <25% <25%	ND(0.40) J ND(0.40) J ND(20) J ND(20) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propinitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetonie Acetonie	CCAL %D CCAL %D CCAL RF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009	<25% <25% <20.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <25% >0.05 <25% >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J ND(0.10) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chioroethane Isobutanol Propionitrile Itrans-1,4-Diokloro-2-butene 1,2-Dibromo-3-chioropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetone Acetonitrile Bromomethane Isobutanol	CCAL %D CCAL %D CCAL RVD ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1%	<25% <25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <0.05 >0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(20) J ND(20) J ND(2.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetonitrile Acrolein Bromomethane Isobutanol Methacrylontrile	CCAL %D CCAL %D CCAL RF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1% 0.005	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <25% >0.05 <225% >0.05 <225% >0.05 <225% >0.05 <25% >0.05 <0.05 <25% >0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.020) J ND(0.020) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.050) J ND(0.050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chioroethane Isobutanol Propionitrile Itrans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetone Acrolein Bromomethane Isobutanol Methacrylonitrile Methacrylonitrile	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1% 0.005	<25% <25% >2.5% >0.05 >0.05 >0.05 >0.05 >0.05 <25% <25% <25% <25% <25% >0.05 <26% <2.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(2.0) J ND(2.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.020) J	
						Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetonitrile Bromomethane Isobutanol Methacrylonitrile Propionitrile Propionitrile Propionitrile Irans-1,4-Dichloro-2-butene	CCAL %D CCAL %D CCAL RF CAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1% 0.009 0.009 0.016 0.017	<25% <25% >25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(0.0050) J	
135-656	39D-R	4/30/2008 4/30/2008	Water	Tier II	Yes	Bromomethane Chioroethane Isobutanol Propionitrile Itrans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetone Acrolein Bromomethane Isobutanol Methacrylonitrile Methacrylonitrile	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1% 0.005	<25% <25% >2.5% >0.05 >0.05 >0.05 >0.05 >0.05 <25% <25% <25% <25% <25% >0.05 <26% <2.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(2.0) J ND(2.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.020) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (continued)	campio is	Date comedica	muun	2010.	quamounon	Join pound	2,0201 aramotor	Value	John C. Limito	Qualifica Hoodit	Heles
35-656 43A		4/30/2008	Water	Tier II	Yes	Acetone	ICAL RRF	0.033	>0.05	ND(0.0050) J	
					Acetone Acetonitrile	CCAL %D ICAL RRF	60.6% 0.009	<25% >0.05	ND(0.0050) J ND(0.020) J		
						Acrolein	ICAL RRF	0.009	>0.05	ND(0.020) J ND(0.025) J	
						Bromomethane	CCAL %D	26.1%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.005	>0.05	ND(0.050) J	
					Methacrylonitrile	ICAL RRF	0.009	>0.05	ND(0.010) J		
						Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF ICAL RRF	0.016 0.017	>0.05 >0.05	ND(0.020) J ND(0.0050) J	
135-656 43B		4/30/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.017	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	0.041 J	
						2-Butanone	CCAL %D	31.5%	<25%	ND(0.0050) J	
						Acetone Acetone	ICAL RRF CCAL %D	0.033 60.6%	>0.05 <25%	ND(0.0050) J ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.0030) J	
						Acrolein	ICAL RRF	0.026	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	26.1%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.005	>0.05	ND(0.050) J ND(0.010) J	
						Methacrylonitrile Propionitrile	ICAL RRF	0.009	>0.05 >0.05	ND(0.010) J ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.017	>0.05	ND(0.0050) J	
135-656 GMA3-I	-DUP#1	4/30/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.011	>0.05	ND(0.0050) J	Duplicate of 43B
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone Acetone	CCAL %D ICAL RRF	31.5% 0.033	<25% >0.05	ND(0.0050) J ND(0.0050) J	
						Acetone	CCAL %D	60.6%	<25%	ND(0.0050) J	
						Acetonic	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.026	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	26.1%	<25%	ND(0.0010) J	
						Isobutanol Methacrylonitrile	ICAL RRF ICAL RRF	0.005 0.009	>0.05 >0.05	ND(0.050) J ND(0.010) J	
						Propionitrile	ICAL RRF	0.009	>0.05	ND(0.010) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.017	>0.05	ND(0.0050) J	
135-656 TripBlai	ank	4/30/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.011	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	CCAL %D ICAL RRF	31.5% 0.033	<25% >0.05	ND(0.0050) J 0.0040 J	
						Acetone Acetone	CCAL %D	60.6%	>0.05 <25%	0.0040 J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.026	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	26.1%	<25%	ND(0.0010) J	
						Isobutanol Methacrylonitrile	ICAL RRF ICAL RRF	0.005 0.009	>0.05 >0.05	ND(0.050) J ND(0.010) J	
						Propionitrile	ICAL RRF	0.009	>0.05	ND(0.010) J ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.017	>0.05	ND(0.0050) J	
35-657 16A		5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(10) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(200) J	
						2-Butanone 2-Chloroethylvinylether	ICAL RRF	0.035 0.018	>0.05 >0.05	ND(10) J ND(25) J	
						Acetone	ICAL RRF	0.021	>0.05	ND(10) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(40) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(50) J	
						Acrylonitrile	ICAL RRF	0.030	>0.05	ND(50) J	
						Bromomethane Chloroethane	CCAL %D CCAL %D	47.2% 53.7%	<25% <25%	ND(2.0) J ND(2.0) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(2.0) J ND(100) J	
						Propionitrile	ICAL RRF	0.011	>0.05	ND(40) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(10) J	
35-657 16B-R		5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
						1,4-Dioxane 2-Butanone	ICAL RRF	0.001 0.035	>0.05 >0.05	ND(0.10) J ND(0.0050) J	
						2-Chloroethylvinylether	MSD %R	0.035	16.7% to 200%	ND(0.0050) J R	
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
1					1	Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (conti	inued)										
35-657 16B-R	5/1/2008	Water	Tier II	Yes	Bromomethane	CCAL %D	48.0%	<25%	ND(0.0010) J		
						Chloroethane Iodomethane	CCAL %D LCS/LCSD RPD	54.2% 102.0%	<25% <30%	ND(0.0010) J ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.0010) J ND(0.050) J	
						Propionitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
				ater Tier II		trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
35-657	16C-R	5/1/2008	Water		Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether Acetone	ICAL RRF ICAL RRF	0.018 0.021	>0.05 >0.05	ND(0.013) J ND(0.0050) J	
						Acetonie	ICAL RRF	0.009	>0.05	ND(0.0030) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	48.0%	<25%	ND(0.0010) J	
						Chloroethane	CCAL %D	54.2%	<25%	ND(0.0010) J	
						Iodomethane	LCS/LCSD RPD ICAL RRF	102.0%	<30%	ND(0.0010) J ND(0.050) J	
						Isobutanol Propionitrile	ICAL RRF	0.003	>0.05 >0.05	ND(0.050) J ND(0.020) J	1
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	1
35-657	2A	5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(50) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(1000) J	
						2-Butanone	ICAL RRF	0.035	>0.05	ND(50) J	
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(130) J	
						Acetone Acetonitrile	ICAL RRF ICAL RRF	0.021 0.009	>0.05 >0.05	ND(50) J ND(200) J	
						Acrolein	ICAL RRF	0.009	>0.05	ND(250) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(250) J		
						Bromomethane	CCAL %D	47.2%	<25%	ND(10) J	
						Chloroethane	CCAL %D	53.7%	<25%	ND(10) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(500) J	
						Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF ICAL RRF	0.011 0.025	>0.05 >0.05	ND(200) J ND(50) J	
35-657	GMA3-DUP2	5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(50) J	Duplicate of 2A
35 051	GWAS BOLZ	3/1/2000	water	TICI II	103	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(1000) J	Duplicate of 2A
						2-Butanone	ICAL RRF	0.035	>0.05	ND(50) J	
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(130) J	
						Acetone	ICAL RRF	0.021	>0.05	ND(50) J	
						Acetonitrile	ICAL RRF ICAL RRF	0.009	>0.05	ND(200) J	
						Acrolein Acrylonitrile	ICAL RRF	0.017 0.030	>0.05 >0.05	ND(250) J ND(250) J	
						Bromomethane	CCAL %D	47.2%	<25%	ND(10) J	
						Chloroethane	CCAL %D	53.7%	<25%	ND(10) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(500) J	
						Propionitrile	ICAL RRF	0.011	>0.05	ND(200) J	
E 053	7: 8: 1	5/4/0000				trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(50) J	
5-657	TripBlank	5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05	ND(0.0050) J	
						2-Butanone	ICAL RRF	0.001	>0.05 >0.05	ND(0.10) J ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.033	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
						Bromomethane Chloroethane	CCAL %D CCAL %D	48.0% 54.2%	<25% <25%	ND(0.0010) J ND(0.0010) J	
						Iodomethane	LCS/LCSD RPD	102.0%	<30%	ND(0.0010) J ND(0.0010) J	1
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.0510) J	1
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
				<u> </u>		trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
5-658	51-14	5/2/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	1
						2-Butanone 2-Chloroethylvinylether	ICAL RRF	0.035 0.018	>0.05 >0.05	ND(0.0050) J ND(0.013) J	<del> </del>
						2-Chloroethylvinylether Acetone	ICAL RRF	0.018	>0.05	ND(0.013) J ND(0.0050) J	
		1				Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.0030) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No. Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes	
VOCs (continued)	T				T	lia ===		T			
G135-658 51-14	5/2/2008	Water	Tier II	Yes	Acrolein Acrylonitrile	ICAL RRF	0.017 0.030	>0.05 >0.05	ND(0.025) J ND(0.025) J		
					Bromomethane	CCAL %D	47.2%	<25%	ND(0.023) J		
					Chloroethane	CCAL %D	53.7%	<25%	ND(0.0010) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J		
					Propionitrile	ICAL RRF ICAL RRF	0.011	>0.05	ND(0.020) J		
G135-658 6B-R	5/2/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	ICAL RRF	0.025 0.025	>0.05 >0.05	ND(0.0050) J ND(1.0) J		
0.00 000	0/2/2000	*******	TICI II	100	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(20) J		
					2-Butanone	ICAL RRF	0.035	>0.05	ND(1.0) J		
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(2.5) J		
					Acetone Acetonitrile	ICAL RRF	0.021 0.009	>0.05 >0.05	ND(1.0) J ND(4.0) J		
					Acrolein	ICAL RRF	0.009	>0.05	ND(4.0) J ND(5.0) J		
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(5.0) J		
					Bromomethane	CCAL %D	47.2%	<25%	ND(0.20) J		
					Chloroethane	CCAL %D	53.7%	<25%	ND(0.20) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(10) J		
					Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF ICAL RRF	0.011 0.025	>0.05 >0.05	ND(4.0) J ND(1.0) J		
G135-658 Trip Blank	5/2/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(1.0) 3 ND(0.0050) J		
O 100 000 Trip Blank	0/2/2000	water	TICI II	103	1.4-Dioxane	ICAL RRF	0.023	>0.05	ND(0.10) J		
					2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J		
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J		
					Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J		
					Acetonitrile	ICAL RRF ICAL RRF	0.009 0.017	>0.05	ND(0.020) J ND(0.025) J		
					Acrolein Acrylonitrile	ICAL RRF	0.017	>0.05 >0.05	ND(0.025) J ND(0.025) J		
					Bromomethane	CCAL %D	48.0%	<25%	ND(0.023) J		
					Chloroethane	CCAL %D	54.2%	<25%	ND(0.0010) J		
					Iodomethane	LCS/LCSD RPD	102.0%	<30%	ND(0.0010) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J		
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
G135-659 89A	5/5/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	ICAL RRF	0.025 0.025	>0.05 >0.05	ND(0.0050) J ND(5.0) J		
G155-059 B5A	3/3/2000	vvater	i lei ii		1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(100) J		
					2-Butanone	ICAL RRF	0.035	>0.05	ND(5.0) J		
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(13) J		
					Acetone	ICAL RRF	0.021	>0.05	ND(5.0) J		
					Acetonitrile Acrolein	ICAL RRF	0.009	>0.05 >0.05	ND(20) J ND(25) J		
					Acrylonitrile	ICAL RRF	0.017	>0.05	ND(25) J ND(25) J		
					Bromomethane	CCAL %D	47.2%	<25%	ND(1.0) J		
					Chloroethane	CCAL %D	53.7%	<25%	ND(1.0) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(50) J		
					Propionitrile	ICAL RRF	0.011	>0.05	ND(20) J		
G135-659 89B	5/5/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene	ICAL RRF	0.025 0.025	>0.05	ND(5.0) J ND(0.010) J		
3133-033   03D	3/3/2006	vvalei	i iei ii	res	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF	0.025	>0.05 >0.05	ND(0.010) J ND(0.20) J		
					2-Butanone	ICAL RRF	0.035	>0.05	ND(0.010) J		
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.025) J		
					Acetone	ICAL RRF	0.021	>0.05	ND(0.010) J		
					Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.040) J		
					Acrolein Acrylonitrile	ICAL RRF ICAL RRF	0.017 0.030	>0.05 >0.05	ND(0.050) J ND(0.050) J		
					Bromomethane	CCAL %D	47.2%	>0.05 <25%	ND(0.000) J ND(0.0020) J		
					Chloroethane	CCAL %D	53.7%	<25%	ND(0.0020) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.10) J		
					Propionitrile	ICAL RRF	0.011	>0.05	ND(0.040) J		
2405.050	E IE 10000	144			trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.010) J		
G135-659 89D-R	5/5/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF	0.025 0.001	>0.05 >0.05	ND(8.0) J ND(160) J		
					1,4-Dioxane 2-Butanone	ICAL RRF	0.001	>0.05 >0.05	ND(160) J ND(8.0) J		
					2-Chloroethylvinylether	ICAL RRF	0.035	>0.05	ND(20) J		
					Acetone	ICAL RRF	0.021	>0.05	ND(8.0) J		
	1			1	Acetonitrile	ICAL RRF	0.009	>0.05	ND(32) J		

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery iroup No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (continued)											
35-659 89D-R	₹	5/5/2008	Water	Tier II	Yes	Acrolein	ICAL RRF ICAL RRF	0.017 0.030	>0.05 >0.05	ND(40) J ND(40) J	
						Acrylonitrile Bromomethane	CCAL %D	47.2%	>0.05 <25%	ND(40) J ND(1.6) J	
						Chloroethane	CCAL %D	53.7%	<25%	ND(1.6) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(80) J	
						Propionitrile	ICAL RRF	0.011	>0.05	ND(32) J	
		E (E (0.0.0.0		Tior II		trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(8.0) J	
5-659 TripBla	lank	5/5/2008	5/5/2008 Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein Acrylonitrile	ICAL RRF ICAL RRF	0.017 0.030	>0.05 >0.05	ND(0.025) J ND(0.025) J	
						Bromomethane	CCAL %D	47.2%	<25%	ND(0.025) J ND(0.0010) J	
						Chloroethane	CCAL %D	53.7%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
35-661 111A-	D	5/6/2008	Water Tie	er Tier II	Yes	trans-1,4-Dichloro-2-butene	ICAL RRF ICAL RRF	0.025	>0.05	ND(0.0050) J	
35-661 111A-	-к	5/6/2008	vvater	Herii	res	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF	0.012 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	
						2-Butanone	ICAL RRF	0.033	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.014	>0.05	ND(0.013) J	
						2-Hexanone	CCAL %D	34.2%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.017	>0.05	ND(0.0050) J	
					Acetonitrile Acrolein	ICAL RRF	0.006 0.015	>0.05 >0.05	ND(0.020) J ND(0.025) J		
					Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J		
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methylene Chloride	CCAL %D	44.5%	<25%	ND(0.0050) J	
						Methylene Chloride	LCSD %R	64.2%	72.9% to 120%	ND(0.0050) J	
					Yes	Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF	0.009 0.020	>0.05 >0.05	ND(0.020) J ND(0.0050) J	
						Xylenes (total)	Trip Blank	0.020	>0.05	ND(0.0050) J ND(0.0010)	
35-661 39E		5/6/2008	Water	Tier II		1,2-Dibromo-3-chloropropane	ICAL RRF	0.012	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.033	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF CCAL %D	0.014 34.2%	>0.05	ND(0.013) J	
						2-Hexanone Acetone	ICAL RRF	0.017	<25% >0.05	ND(0.0050) J ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.015	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methylene Chloride Methylene Chloride	CCAL %D LCSD %R	44.5% 64.2%	<25% 72.9% to 120%	ND(0.0050) J ND(0.0050) J	
						Propionitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
5-661 Trip B	Blank	5/6/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.012	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone 2-Chloroethylvinylether	ICAL RRF ICAL RRF	0.033 0.014	>0.05 >0.05	ND(0.0050) J ND(0.013) J	
1						2-Hexanone	CCAL %D	34.2%	>0.05 <25%	ND(0.013) J ND(0.0050) J	
1						Acetone	ICAL RRF	0.017	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
1						Acrolein	ICAL RRF	0.015	>0.05	ND(0.025) J	
1						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol Methylene Chloride	ICAL RRF CCAL %D	0.003 44.5%	>0.05 <25%	ND(0.050) J ND(0.0050) J	
						Methylene Chloride	LCSD %R	64.2%	72.9% to 120%	ND(0.0050) J	
						Propionitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
-662 95B-R	5/8/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(2.0) J	·	
5-662 95B-R	₹	5/8/2008	vvalei	TICITI		1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(40) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (conti						Сотрони	4.7 40 / 2.2	1			
G135-662	95B-R	5/8/2008	Water	Tier II	Yes	2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(5.0) J	
						Acetone Acetone	ICAL RRF CCAL %D	0.023 26.1%	>0.05 <25%	ND(2.0) J ND(2.0) J	
						Acetonie	ICAL RRF	0.008	>0.05	ND(8.0) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(10) J	
						Acrylonitrile	ICAL RRF	0.041	>0.05	ND(10) J	
						Isobutanol	ICAL RRF ICAL RRF	0.003	>0.05	ND(20) J	
						Methacrylonitrile Methylene Chloride	Method Blank	0.007	>0.05	ND(4.0) J ND(2.0)	
						Propionitrile	ICAL RRF	0.013	>0.05	ND(8.0) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.029	>0.05	ND(2.0) J	
G135-662	TripBlank	5/8/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane 2-Butanone	ICAL RRF	0.001 0.043	>0.05 >0.05	ND(0.10) J ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.023	>0.05	0.0041 J	
						Acetone	CCAL %D	26.1%	<25%	0.0041 J	
						Acetonitrile	ICAL RRF	0.008 0.024	>0.05 >0.05	ND(0.020) J ND(0.025) J	
						Acrolein Acrylonitrile	ICAL RRF	0.024	>0.05	ND(0.025) J ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.007	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.013	>0.05	ND(0.020) J	
G135-669	114A	5/13/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	ICAL RRF ICAL RRF	0.029 0.016	>0.05 >0.05	ND(0.0050) J ND(0.0050) J	
G133-009	1144	5/13/2006	water	i iei ii	res	1,4-Dioxane	ICAL RRF	0.016	>0.05	ND(0.0030) J	
						2-Butanone	ICAL RRF	0.043	>0.05	0.011 J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.023	>0.05	0.15 J	
						Acetone Acetonitrile	CCAL %D ICAL RRF	26.1% 0.008	<25% >0.05	0.15 J ND(0.020) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.041	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF ICAL RRF	0.007 0.013	>0.05 >0.05	ND(0.010) J ND(0.020) J	
						Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF	0.013	>0.05	ND(0.020) J	
G135-669	114B-R	5/13/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.20) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(4.0) J	
						2-Butanone	ICAL RRF	0.043	>0.05	ND(0.20) J	
						2-Chloroethylvinylether Acetone	ICAL RRF	0.027 0.023	>0.05 >0.05	ND(0.50) J ND(0.20) J	
						Acetone	CCAL %D	26.1%	<25%	ND(0.20) J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.80) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(1.0) J	
						Acrylonitrile	ICAL RRF	0.041	>0.05	ND(1.0) J	
						Isobutanol Methacrylonitrile	ICAL RRF	0.003 0.007	>0.05 >0.05	ND(2.0) J ND(0.40) J	
						Methylene Chloride	Method Blank	0.007		ND(0.40) 3 ND(2.0)	
						Propionitrile	ICAL RRF	0.013	>0.05	ND(0.80) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.029	>0.05	ND(0.20) J	
G135-669	TripBlank	5/13/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1.4-Dioxane	ICAL RRF	0.016 0.001	>0.05 >0.05	ND(0.0050) J	
						1,4-Dioxane 2-Butanone	ICAL RRF	0.001	>0.05	ND(0.10) J ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.043	>0.05	ND(0.0030) J	
						Acetone	ICAL RRF	0.023	>0.05	0.0041 J	
						Acetone	CCAL %D	26.1%	<25%	0.0041 J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein Acrylonitrile	ICAL RRF ICAL RRF	0.024 0.041	>0.05 >0.05	ND(0.025) J ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.007	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.013	>0.05	ND(0.020) J	
0405.074	444D D	F/4 / /0000	14/	T "		trans-1,4-Dichloro-2-butene	ICAL RRF	0.029	>0.05	ND(0.0050) J	
G135-671	111B-R	5/14/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery			Validation							
Group No. Sample ID  OCs (continued)	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
135-671 111B-R	5/14/2008	Water	Tier II	Yes	2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J	
				2-Chloroethylvinylether ICAL RRF		0.018	>0.05	ND(0.013) J		
					Acetone Acetonitrile	ICAL RRF	0.021 0.009	>0.05 >0.05	ND(0.0050) J ND(0.020) J	
					Acetonitrile	CCAL %D	44.4%	<25%	ND(0.020) J	
					Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
					Bromomethane Chloroethane	CCAL %D CCAL %D	48.8% 52.0%	<25% <25%	ND(0.0010) J ND(0.0010) J	
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
					Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
					trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
35-671 90A	5/14/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	
					2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J	
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J	
					Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
					Acetonitrile Acetonitrile	ICAL RRF CCAL %D	0.009 44.4%	>0.05 <25%	ND(0.020) J ND(0.020) J	
					Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
					Bromomethane	CCAL %D	48.8%	<25%	ND(0.0010) J	
					Chloroethane Isobutanol	CCAL %D ICAL RRF	52.0%	<25%	ND(0.0010) J	
					Propionitrile	ICAL RRF	0.003 0.011	>0.05 >0.05	ND(0.050) J ND(0.020) J	
					trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
135-671 90B	5/14/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
					1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
					2-Butanone 2-Chloroethylvinylether	ICAL RRF	0.035 0.018	>0.05 >0.05	ND(0.0050) J ND(0.013) J	
					Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
					Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
					Acetonitrile	CCAL %D	44.4%	<25%	ND(0.020) J	
					Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
					Acrylonitrile Bromomethane	CCAL %D	48.8%	>0.05 <25%	ND(0.025) J ND(0.0010) J	
					Chloroethane	CCAL %D	52.0%	<25%	ND(0.0010) J	
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
					Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
135-671 95A	5/14/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	ICAL RRF	0.025 0.025	>0.05 >0.05	ND(0.0050) J ND(0.0050) J	
55 57 1	0/1//2000	*******	110111	100	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
					2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J	
					2-Chloroethylvinylether Acetone	ICAL RRF	0.018 0.021	>0.05 >0.05	ND(0.013) J ND(0.0050) J	
					Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.0050) J ND(0.020) J	
					Acetonitrile	CCAL %D	44.4%	<25%	ND(0.020) J	
					Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
					Bromomethane Chloroethane	CCAL %D CCAL %D	48.8% 52.0%	<25% <25%	ND(0.0010) J ND(0.0010) J	
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
					Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
	#1: ::	144			trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
35-671 Trip Blank	5/14/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	
					2-Butanone	ICAL RRF	0.001	>0.05	ND(0.10) J ND(0.0050) J	
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J	
1					Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
					Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
					Acetonitrile Acrolein	CCAL %D ICAL RRF	44.4% 0.017	<25% >0.05	ND(0.020) J ND(0.025) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
					Bromomethane	CCAL %D	48.8%	<25%	ND(0.0010) J	
					Chloroethane Isobutanol	CCAL %D ICAL RRF	52.0% 0.003	<25% >0.05	ND(0.0010) J ND(0.050) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No.		Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes					
/OCs (cont		5/44/0000				In the second	lion ppr	0.044	0.05	NB(0.000) 1						
6135-671	Trip Blank	5/14/2008	Water	Tier II	Yes	Propionitrile trans-1.4-Dichloro-2-butene	ICAL RRF	0.011 0.025	>0.05 >0.05	ND(0.020) J ND(0.0050) J						
135-673	115A	5/15/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J						
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J						
						1,4-Dioxane	CCAL %D	26.2%	<25%	ND(0.10) J						
						2-Butanone 2-Chloroethylvinylether	ICAL RRF ICAL RRF	0.035 0.018	>0.05 >0.05	ND(0.0050) J ND(0.013) J						
						Acetone	ICAL RRF	0.018	>0.05	ND(0.013) J ND(0.0050) J						
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J						
						Acetonitrile	CCAL %D	33.3%	<25%	ND(0.020) J						
						Acrolein	ICAL RRF	0.017	>0.05 >0.05	ND(0.025) J						
						Acrylonitrile Bromomethane	CCAL %D	0.030 39.0%	>0.05 <25%	ND(0.025) J ND(0.0010) J						
						Chloroethane	CCAL %D	46.9%	<25%	ND(0.0010) J						
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J						
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J						
105 670	11ED	E/4E/0000	Mot	T7 0	Y	trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J						
135-673	115B	5/15/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J						
						1,4-Dioxane	CCAL %D	26.2%	<25%	ND(0.10) J						
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J						
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J						
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J						
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J ND(0.020) J						
					Acetonitrile		ND(0.025) J									
						>0.05	ND(0.025) J									
						Bromomethane CCAL %D 39.0% <25	<25%	ND(0.0010) J								
						Chloroethane	CCAL %D	46.9%	<25%	ND(0.0010) J						
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J						
						Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF	0.011 0.025	>0.05 >0.05	ND(0.020) J ND(0.0050) J						
3135-673 GMA3-RB-1	GMA3-RB-1	5/15/2008	Water	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
				Herli	165	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J						
						1,4-Dioxane	CCAL %D	26.2%	<25%	ND(0.10) J						
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J						
						2-Chloroethylvinylether Acetone	ICAL RRF ICAL RRF	0.018 0.021	>0.05 >0.05	ND(0.013) J ND(0.0050) J						
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.0030) J						
						Acetonitrile	CCAL %D	33.3%	<25%	ND(0.020) J						
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J						
						Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J						
						Bromomethane Chloroethane	CCAL %D CCAL %D	39.0% 46.9%	<25% <25%	ND(0.0010) J ND(0.0010) J						
						Isobutanol	ICAL RRF	0.003	<25% >0.05	ND(0.050) J						
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J						
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J						
135-673	TripBlank	5/15/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	<u> </u>					
						1,4-Dioxane 1,4-Dioxane	ICAL RRF CCAL %D	0.001 26.2%	>0.05 <25%	ND(0.10) J ND(0.10) J						
						2-Butanone	ICAL RRF	0.035	<25% >0.05	ND(0.10) J ND(0.0050) J						
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.0030) J						
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J						
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	·					
						Acetonitrile	CCAL %D ICAL RRF	33.3% 0.017	<25% >0.05	ND(0.020) J						
						Acrolein Acrylonitrile	ICAL RRF	0.017	>0.05	ND(0.025) J ND(0.025) J						
						Bromomethane	CCAL %D	39.0%	<25%	ND(0.023) 3 ND(0.0010) J						
						Chloroethane	CCAL %D	46.9%	<25%	ND(0.0010) J						
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J						
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J						
100-	1			1	1	trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J						
/OCs 135-656	39B-R	4/30/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	67.4%	<25%	ND(0.26) J						
100-000	33D-IX	4/30/2008	vvalei	i iei ii	168	2,4-Dinitrophenol	CCAL %D	53.0%	<25% <25%	ND(0.26) J ND(0.26) J						
	1			1	1	2-Naphthylamine	CCAL %D	71.1%	<25%	ND(0.26) J						

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample											
Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (cont	tinued)					•	<u> </u>				•
	39B-R	4/30/2008	Water	Tier II	Yes	4-Nitroquinoline-1-oxide	CCAL %D	45.3%	<25%	ND(0.26) J	
						4-Phenylenediamine	ICAL RRF	0.033	>0.05	ND(0.11) J	
						4-Phenylenediamine	CCAL %D	26.3%	<25%	ND(0.11) J	
						Hexachlorocyclopentadiene	ICAL RRF CCAL %D	0.018 40.5%	>0.05 <25%	ND(0.11) J ND(0.11) J	
						Hexachlorocyclopentadiene Hexachlorophene	CCAL %D	32.8%	<25%	ND(0.053) J	
						Methapyrilene	CCAL %D	100.0%	<25%	ND(0.053) J	
G135-657	16A	5/1/2008	Water	Tier II	No					(*****/**	
	2A	5/1/2008	Water	Tier II	No						
G135-657	GMA3-DUP2	5/1/2008	Water	Tier II	No						Duplicate of 2A
G135-659 G135-659	89A 89B	5/5/2008 5/5/2008	Water Water	Tier II	No No						
G135-662	95B-R	5/8/2008	Water	Tier II	No						
	95A	5/14/2008	Water	Tier II	No						
Sulfate, Chlo	oride, Nitrite, Nitrate										"
G135-656	39B-R	4/30/2008	Water	Tier II	No						
G135-656	39D-R	4/30/2008	Water	Tier II	No						
G135-656	43A	4/30/2008	Water	Tier II	No			_			
G135-656 G135-656	43B GMA3-DUP#1	4/30/2008 4/30/2008	Water Water	Tier II	No No			_			Duplicate of 43B
G135-657	16A	5/1/2008	Water	Tier II	No						Duplicate of 43B
G135-657	16B-R	5/1/2008	Water	Tier II	No						
G135-657	16C-R	5/1/2008	Water	Tier II	No						
G135-657	2A	5/1/2008	Water	Tier II	No						
G135-657	GMA3-DUP2	5/1/2008	Water	Tier II	No						Duplicate of 2A
G135-659	89A	5/5/2008	Water	Tier II	No						
G135-659 G135-659	89B 89D-R	5/5/2008 5/5/2008	Water Water	Tier II Tier II	No No						
G135-661	111A-R	5/6/2008	Water	Tier II	No						
G135-661	39E	5/6/2008	Water	Tier II	No						
G135-662	95B-R	5/8/2008	Water	Tier II	No						
G135-669	114A	5/13/2008	Water	Tier II	No						
G135-669	114B-R	5/13/2008	Water	Tier II	No						
G135-671	111B-R	5/14/2008	Water	Tier II	No						
G135-671 G135-671	90A 90B	5/14/2008 5/14/2008	Water Water	Tier II Tier II	No No						
G135-671	95A	5/14/2008	Water	Tier II	No						
G135-673	115A	5/15/2008	Water	Tier II	Yes	Chloride	Rinse Blank	-	-	ND(0.3)	
G135-673	115B	5/15/2008	Water	Tier II	No						
G135-673	GMA3-RB-1	5/15/2008	Water	Tier II	No						
	hane, Ethene-RSK-175								,		
G135-656 G135-656	39B-R 39D-R	4/30/2008 4/30/2008	Water Water	Tier II Tier II	No No			_			
G135-656	43A	4/30/2008	Water	Tier II	No	+		+			<u> </u>
G135-656	43B	4/30/2008	Water	Tier II	No						
G135-656	GMA3-DUP#1	4/30/2008	Water	Tier II	No						Duplicate of 43B
G135-657	16A	5/1/2008	Water	Tier II	No					•	
G135-657	16B-R	5/1/2008	Water	Tier II	Yes	Methane	MSD %R	68.6%	70.0% to 130%	1.52 J	
G135-657	16C-R	5/1/2008 5/1/2008	Water	Tier II Tier II	No No			_			
G135-657 G135-657	GMA3-DUP2	5/1/2008	Water Water	Tier II	No No	+					Duplicate of 2A
G135-659	89A	5/5/2008	Water	Tier II	No	+					Dapinous of En
G135-659	89B	5/5/2008	Water	Tier II	No						
G135-659	89D-R	5/5/2008	Water	Tier II	No						
G135-661	111A-R	5/6/2008	Water	Tier II	No						
G135-661	39E	5/6/2008	Water	Tier II	No						
G135-662 G135-669	95B-R 114A	5/8/2008 5/13/2008	Water Water	Tier II Tier II	No No	+		_			
G135-669	114A 114B-R	5/13/2008	Water	Tier II	No	+	+	+			1
G135-669	111B-R	5/14/2008	Water	Tier II	No	†					
G135-671	90A	5/14/2008	Water	Tier II	No						
G135-671	90B	5/14/2008	Water	Tier II	No						
G135-671	95A	5/14/2008	Water	Tier II	No					•	
G135-673	115A	5/15/2008	Water	Tier II	No	1					
G135-673 G135-673	115B GMA3-RB-1	5/15/2008 5/15/2008	Water Water	Tier II Tier II	No No	+					1
0100-013	OWAS-KD-1	3/ 13/2000	vvalU	I I I I I I	NU	1			1		1

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample											
Delivery				Validation							
Froup No.	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
alinity											
35-656 39B-R		4/30/2008	Water	Tier II	No						
135-656 39D-R	R	4/30/2008	Water	Tier II	No						
135-656 43A		4/30/2008	Water	Tier II	No						
135-656 43B		4/30/2008	Water	Tier II	No						
	3-DUP#1	4/30/2008	Water	Tier II	No						Duplicate of 43B
135-657 16A	_	5/1/2008	Water	Tier II	No						
135-657 16B-R		5/1/2008	Water	Tier II	No						
135-657 16C-R	R	5/1/2008	Water	Tier II	No						
135-657 2A	0 BUB0	5/1/2008	Water	Tier II	No						D II + 101
	3-DUP2	5/1/2008 5/5/2008	Water Water	Tier II	No No						Duplicate of 2A
			Water	Tier II	No No						
135-659 89B 135-659 89D-R	D	5/5/2008 5/5/2008	Water	Tier II	No						
135-659 89D-N		5/5/2008	Water	Tier II	No No						
135-661 39E	-iv	5/6/2008	Water	Tier II	No No			1			
135-662 95B-R	n	5/8/2008	Water	Tier II	No						
135-662 956-R 135-669 114A		5/13/2008	Water	Tier II	No						
135-669 114B-		5/13/2008	Water	Tier II	No						
1135-669 114B- 1135-671 111B-		5/14/2008	Water	Tier II	No						
135-671 90A	r-IX	5/14/2008	Water	Tier II	No						
135-671 90B		5/14/2008	Water	Tier II	No						
135-671 95A		5/14/2008	Water	Tier II	No			-			+
6135-673 115A		5/15/2008	Water	Tier II	No						
G135-673 115B		5/15/2008	Water	Tier II	No						
	3-RB-1	5/15/2008	Water	Tier II	No						
OCC	0101	0/10/2000	TTULO	110111	110			1	1		
	R (Filtered)	4/30/2008	Water	Tier II	No			1			
	R (Filtered)	4/30/2008	Water	Tier II	No						
	(Filtered)	4/30/2008	Water	Tier II	No						
	(Filtered)	4/30/2008	Water	Tier II	No						
	3-DUP#1 (Filtered)	4/30/2008	Water	Tier II	No						Duplicate of 43B (Filtered)
	(Filtered)	5/1/2008	Water	Tier II	No						Dapinoate of 10D (i morea)
	R (Filtered)	5/1/2008	Water	Tier II	No						
	R (Filtered)	5/1/2008	Water	Tier II	No						
	Filtered)	5/1/2008	Water	Tier II	No						
	3-DUP2 (Filtered)	5/1/2008	Water	Tier II	No						Duplicate of 2A (Filtered)
135-659 89A (F	(Filtered)	5/5/2008	Water	Tier II	No						
	(Filtered)	5/5/2008	Water	Tier II	No						
	R (Filtered)	5/5/2008	Water	Tier II	No						
135-661 111A-	-R (Filtered)	5/6/2008	Water	Tier II	No						
	(Filtered)	5/6/2008	Water	Tier II	No						
	R (Filtered)	5/8/2008	Water	Tier II	No						
	(Filtered)	5/13/2008	Water	Tier II	No						
	-R (Filtered)	5/13/2008	Water	Tier II	No						
	-R (Filtered)	5/14/2008	Water	Tier II	No		<u> </u>				<u> </u>
135-671 90A (F	(Filtered)	5/14/2008	Water	Tier II	No		<u> </u>				<u> </u>
	(Filtered)	5/14/2008	Water	Tier II	No						
	(Filtered)	5/14/2008	Water	Tier II	No		-				
	(Filtered)	5/15/2008	Water	Tier II	Yes	Dissolved Organic Carbon	Rinse Blank	-	-	ND(1.0)	
	(Filtered)	5/15/2008	Water	Tier II	Yes	Dissolved Organic Carbon	Rinse Blank	-	-	ND(1.0)	
6135-673 GMA3	3-RB-1 (Filtered)	5/15/2008	Water	Tier II	No						

# **ARCADIS**

## Appendix E

Spring 2008 Groundwater Analytical Results

Table E-1 Spring 2008 Groundwater Analytical Results

Deservator	Sample ID: Date Collected:	2A 05/04/09	6B-R	16A	16B-R	16C-R
Parameter Volatile Organic		05/01/08	05/02/08	05/01/08	05/01/08	05/01/08
1,1,1,2-Tetrachlo		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,1,1,2-Tetracrilo		ND(10) [ND(10)] ND(10) [ND(10)]	ND(0.20) ND(0.20)	ND(2.0) ND(2.0)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)
1,1,2,2-Tetrachlo		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroeth		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,1-Dichloroether		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropro		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-ch	•	ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
1,2-Dibromoetha		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0030)
1.2-Dichloroethar		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropa		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	uno	ND(1000) [ND(1000)]	ND(20)	ND(200)	ND(0.10)	ND(0.10)
2-Butanone		ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
2-Chloro-1,3-buta	adiene	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
2-Chloroethylviny		ND(130) [ND(130)]	ND(2.5)	ND(25)	ND(0.013)	ND(0.013)
2-Hexanone		ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
3-Chloropropene		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
4-Methyl-2-penta		ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
Acetone		ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
Acetonitrile		ND(200) [ND(200)]	ND(4.0)	ND(40)	ND(0.020)	ND(0.020)
Acrolein		ND(250) [ND(250)]	ND(5.0)	ND(50)	ND(0.025)	ND(0.025)
Acrylonitrile		ND(250) [ND(250)]	ND(5.0)	ND(50)	ND(0.025)	ND(0.025)
Benzene		21 [23]	4.3	13	0.00075 J	ND(0.0010)
Bromodichlorome	ethane	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Bromoform		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Bromomethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Carbon Disulfide		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Carbon Tetrachlo	oride	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Chlorobenzene		77 [97]	2.5	37	0.0011	ND(0.0010)
Chloroethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Chloroform		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Chloromethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
cis-1,3-Dichlorop	ropene	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Dibromochlorome	ethane	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Dibromomethane	)	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Dichlorodifluorom	nethane	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylat	e	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Ethylbenzene		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Iodomethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Isobutanol		ND(500) [ND(500)]	ND(10)	ND(100)	ND(0.050)	ND(0.050)
Methacrylonitrile		ND(100) [ND(100)]	ND(2.0)	ND(20)	ND(0.010)	ND(0.010)
Methyl Methacryl	ate	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Methylene Chlori	de	ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
Propionitrile		ND(200) [ND(200)]	ND(4.0)	ND(40)	ND(0.020)	ND(0.020)
Styrene		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Tetrachloroethen	е	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Toluene		1.1 J [1.3 J]	0.086 J	0.62 J	ND(0.0010)	ND(0.0010)
trans-1,2-Dichlore		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichlore		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichlore	o-2-butene	ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
Trichloroethene		6.4 J [7.5 J]	ND(0.20)	ND(2.0)	0.00044 J	ND(0.0010)
Trichlorofluorome	ethane	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Vinyl Acetate		ND(25) [ND(25)]	ND(0.50)	ND(5.0)	ND(0.0025)	ND(0.0025)
Vinyl Chloride		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Xylenes (total)		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Total VOCs		110 [130 J]	6.9 J	51	0.0023 J	ND(0.10)

Table E-1 Spring 2008 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	2A 05/01/08	6B-R 05/02/08	16A 05/01/08	16B-R 05/01/08	16C-R 05/01/08
PCBs-Filtered	Date Collected.	03/01/08	03/02/06	03/01/06	03/01/06	03/01/06
Aroclor-1016	-	NA	NA	NA	NA	NA
Aroclor-1221		NA NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1232		NA NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1232		NA NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1248		NA NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1254		NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1260		NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA
Semivolatile Org	anics					
1,2,4,5-Tetrachlo		NA	NA	NA	NA	NA
1,2,4-Trichlorobe		NA	NA	NA	NA	NA
1,2-Dichlorobenz	ene	NA	NA	NA	NA	NA
1,2-Diphenylhydra	azine	NA	NA	NA	NA	NA
1,3,5-Trinitrobenz	zene	NA	NA	NA	NA	NA
1,3-Dichlorobenz	ene	NA	NA	NA	NA	NA
1,3-Dinitrobenzer	ne	NA	NA	NA	NA	NA
1,4-Dichlorobenz		NA	NA	NA	NA	NA
1,4-Naphthoquino		NA	NA	NA	NA	NA
1-Naphthylamine		NA	NA	NA	NA	NA
2,3,4,6-Tetrachlo		NA	NA	NA	NA	NA
2,4,5-Trichloroph		NA NA	NA	NA	NA	NA
2,4,6-Trichloroph		NA NA	NA NA	NA	NA NA	NA NA
2,4-Dichlorophen		NA NA	NA	NA	NA	NA
2,4-Dimethylpher 2,4-Dinitrophenol		NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dinitrophenoi		NA NA	NA NA	NA NA	NA NA	NA NA
2.6-Dichlorophen		NA NA	NA NA	NA NA	NA NA	NA NA
2.6-Dinitrotoluene		NA NA	NA NA	NA NA	NA NA	NA NA
2-Acetylaminoflu		NA NA	NA NA	NA NA	NA NA	NA NA
2-Chloronaphthal		NA	NA NA	NA NA	NA NA	NA NA
2-Chlorophenol	one	ND(0.0051) [ND(0.0051)]	NA NA	0.022	NA NA	NA NA
2-Methylnaphthal	ene	NA	NA.	NA	NA NA	NA NA
2-Methylphenol		NA	NA	NA	NA	NA
2-Naphthylamine		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-Methylpheno	ol	NA	NA	NA	NA	NA
3,3'-Dichlorobenz	zidine	NA	NA	NA	NA	NA
3,3'-Dimethylben		NA	NA	NA	NA	NA
3-Methylcholanth	rene	NA	NA	NA	NA	NA
3-Nitroaniline		NA	NA	NA	NA	NA
4,6-Dinitro-2-met	hylphenol	NA	NA	NA	NA	NA
4-Aminobiphenyl		NA	NA	NA	NA	NA
4-Bromophenyl-p		NA	NA	NA	NA	NA
4-Chloro-3-Methy	ripnenoi	NA NA	NA	NA	NA	NA
4-Chloroaniline		NA NA	NA NA	NA NA	NA NA	NA NA
4-Chlorobenzilate 4-Chlorophenol	;	NA ND(0.0051) [ND(0.0051)]	NA NA	NA 0.062	NA NA	NA NA
4-Chlorophenyl-p	hanvlether	NA	NA NA	0.062 NA	NA NA	NA NA
4-Nitroaniline	ricityiculci	NA NA	NA NA	NA NA	NA NA	NA NA
4-Nitrophenol		NA NA	NA NA	NA NA	NA NA	NA NA
4-Nitroguinoline-	1-oxide	NA NA	NA NA	NA NA	NA NA	NA NA
4-Phenylenediam		NA NA	NA NA	NA NA	NA NA	NA NA
5-Nitro-o-toluidine		NA NA	NA NA	NA NA	NA NA	NA NA
7,12-Dimethylber		NA NA	NA NA	NA NA	NA NA	NA NA
a,a'-Dimethylphei	` '	NA NA	NA NA	NA NA	NA NA	NA NA
Acenaphthene		NA NA	NA NA	NA NA	NA NA	NA NA
Acenaphthylene		NA NA	NA NA	NA NA	NA NA	NA NA
Acetophenone		NA NA	NA NA	NA NA	NA NA	NA NA
Aniline		NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	2A	6B-R	16A	16B-R	16C-R
Parameter	Date Collected:	05/01/08	05/02/08	05/01/08	05/01/08	05/01/08
	ganics (continued)			_		
Aramite		NA	NA	NA	NA	NA
Benzidine		NA NA	NA NA	NA	NA	NA NA
Benzo(a)anthrac	ene	NA NA	NA NA	NA NA	NA NA	NA NA
Benzo(a)pyrene Benzo(b)fluorant	thono	NA NA	NA NA	NA NA	NA NA	NA NA
Benzo(g,h,i)pery		NA NA	NA NA	NA NA	NA NA	NA NA
Benzo(k)fluorant		NA NA	NA NA	NA NA	NA NA	NA NA
Benzyl Alcohol	TICHE	NA NA	NA NA	NA NA	NA NA	NA NA
bis(2-Chloroetho	xv)methane	NA NA	NA	NA	NA	NA
bis(2-Chloroethy		NA	NA	NA	NA	NA
bis(2-Chloroisop		NA	NA	NA	NA	NA
bis(2-Ethylhexyl)	phthalate	NA	NA	NA	NA	NA
Butylbenzylphtha	alate	NA	NA	NA	NA	NA
Chrysene		NA	NA	NA	NA	NA
Diallate		NA	NA	NA	NA	NA
Dibenzo(a,h)anth	nracene	NA	NA	NA	NA	NA
Dibenzofuran		NA NA	NA	NA NA	NA	NA
Diethylphthalate	t-a	NA NA	NA NA	NA NA	NA NA	NA NA
Dimethylphthalat		NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthala		NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Octylphthair Diphenylamine	ate	NA NA	NA NA	NA NA	NA NA	NA NA
Ethyl Methanesu	lfonate	NA NA	NA NA	NA NA	NA NA	NA NA
Fluoranthene	illoriale	NA NA	NA NA	NA NA	NA NA	NA NA
Fluorene		NA NA	NA NA	NA NA	NA NA	NA NA
Hexachlorobenz	ene	NA NA	NA	NA NA	NA NA	NA NA
Hexachlorobutac		NA NA	NA	NA	NA	NA
Hexachlorocyclo		NA	NA	NA	NA	NA
Hexachloroethar	ne	NA	NA	NA	NA	NA
Hexachlorophen	е	NA	NA	NA	NA	NA
Hexachloroprope		NA	NA	NA	NA	NA
Indeno(1,2,3-cd)	pyrene	NA	NA	NA	NA	NA
Isodrin		NA	NA	NA	NA	NA
Isophorone		NA	NA	NA	NA	NA
Isosafrole		NA NA	NA	NA NA	NA	NA
Methapyrilene		NA NA	NA NA	NA NA	NA	NA NA
Methyl Methanes	suitonate	NA NA	NA NA	NA NA	NA NA	NA NA
Naphthalene Nitrobenzene		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosodiethyla	amine	NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosodimeth		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitroso-di-n-bi		NA NA	NA	NA NA	NA NA	NA NA
N-Nitroso-di-n-pi		NA NA	NA	NA NA	NA NA	NA
N-Nitrosodiphen		NA NA	NA	NA	NA	NA
N-Nitrosomethyle	ethylamine	NA	NA	NA	NA	NA
N-Nitrosomorpho	oline	NA	NA	NA	NA	NA
N-Nitrosopiperid		NA	NA	NA	NA	NA
N-Nitrosopyrrolic		NA	NA	NA	NA	NA
o,o,o-Triethylpho	sphorothioate	NA	NA	NA	NA	NA
o-Toluidine		NA	NA	NA	NA	NA
p-Dimethylamino		NA	NA	NA	NA	NA
Pentachlorobenz		NA NA	NA NA	NA	NA	NA
Pentachloroetha		NA NA	NA NA	NA NA	NA NA	NA NA
Pentachloronitro Pentachloropher		NA NA	NA NA	NA NA	NA NA	NA NA
Phenacetin	101	NA NA	NA NA	NA NA	NA NA	NA NA
Phenacetin		NA NA	NA NA	NA NA	NA NA	NA NA
Phenol		NA NA	NA NA	NA NA	NA NA	NA NA
Pronamide		NA NA	NA NA	NA NA	NA NA	NA NA
Pyrene		NA NA	NA NA	NA NA	NA NA	NA NA
Pyridine		NA	NA NA	NA NA	NA NA	NA NA
Safrole		NA NA				
Thionazin		NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	2A	6B-R	16A	16B-R	16C-R
Parameter	Date Collected:	05/01/08	05/02/08	05/01/08	05/01/08	05/01/08
Natural Attenua	tion Parameters					
Alkalinity		170 [170]	NA	450	530	120
Chloride		8.9 [8.6]	NA	1900	270	1.2
Dissolved Iron		ND(0.100) [ND(0.100)]	NA	1.23	0.0246 B	ND(0.100)
Dissolved Organ	ic Carbon	2.09 [2.17]	NA	32.9	6.44	0.856
Ethane		ND(0.020) [ND(0.020)]	NA	ND(0.10)	ND(0.10)	ND(0.020)
Ethene		ND(0.020) [ND(0.020)]	NA	0.37	ND(0.10)	ND(0.020)
Methane		ND(0.00720) [ND(0.00720)]	NA	1.91	1.52	ND(0.00720)
Nitrate Nitrogen		ND(0.300) [ND(0.300)]	NA	ND(0.300)	ND(0.300)	0.190 B
Nitrite Nitrogen		ND(0.300) [ND(0.300)]	NA	ND(3.00)	ND(3.00)	ND(0.300)
Sulfate (turbidim	etric)	22.2 [21.9]	NA	0.951	15.7	6.38

Table E-1 Spring 2008 Groundwater Analytical Results

_	Sample ID:	39B-R	39D-R	39E	43A	43B
Parameter	Date Collected:	04/30/08	04/30/08	05/06/08	04/30/08	04/30/08
Volatile Organic						
1,1,1,2-Tetrachlo		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1,1-Trichloroeth		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1,2,2-Tetrachlo		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1,2-Trichloroeth		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethai		ND(0.40) ND(0.40)	ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) [ND(0.0010)] ND(0.0010) [ND(0.0010)]
1,2,3-Trichloropro		ND(0.40)	ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dibromo-3-ch	•	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
1,2-Dibromoetha		ND(0.40)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030) [ND(0.0030)]
1.2-Dichloroethai		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dichloropropa		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,4-Dioxane		ND(40)	ND(0.10)	ND(0.10)	0.18	0.041 J [ND(0.10)]
2-Butanone		ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Chloro-1,3-buta	adiene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
2-Chloroethylviny	lether ether	ND(5.0)	ND(0.013)	ND(0.013)	ND(0.013)	ND(0.013) [ND(0.013)]
2-Hexanone		ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
3-Chloropropene		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
4-Methyl-2-penta	none	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Acetone		ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Acetonitrile		ND(8.0)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
Acrolein		ND(10)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025) [ND(0.025)]
Acrylonitrile		ND(10)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025) [ND(0.025)]
Benzene		0.67	0.00033 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Bromodichlorome	ethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Bromoform		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Bromomethane		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Carbon Disulfide		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Carbon Tetrachlo	oride	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chlorobenzene		16	0.040	0.00024 J	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloroethane Chloroform		ND(0.40)	ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) [ND(0.0010)] ND(0.0010) [ND(0.0010)]
Chloromethane		ND(0.40) ND(0.40)	ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
cis-1,3-Dichlorop	ronono	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dibromochlorom	•	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dibromomethane		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dichlorodifluorom		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Ethyl Methacrylat		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Ethylbenzene		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Iodomethane		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Isobutanol		ND(20)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]
Methacrylonitrile		ND(4.0)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Methyl Methacryl	ate	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Methylene Chlori	de	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Propionitrile		ND(8.0)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
Styrene		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Tetrachloroethen	е	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Toluene		0.21 J	0.00015 J	0.00025 J	ND(0.0010)	ND(0.0010) [0.00019 J]
trans-1,2-Dichlor		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
trans-1,3-Dichlor	<u> </u>	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
trans-1,4-Dichlor	o-2-butene	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Trichloroethene		0.20 J	0.00017 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Trichlorofluorome	ethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Vinyl Acetate		ND(1.0)	ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.0025) [ND(0.0025)]
Vinyl Chloride		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Xylenes (total)		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Total VOCs		17	0.041	0.00049 J	0.18	0.041 J [0.00019 J]

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	39B-R	39D-R	39E	43A	43B
Parameter	Date Collected:	04/30/08	04/30/08	05/06/08	04/30/08	04/30/08
PCBs-Filtered						
Aroclor-1016		NA	NA	NA	NA	NA
Aroclor-1221		NA	NA	NA	NA	NA
Aroclor-1232		NA	NA	NA	NA	NA
Aroclor-1242		NA	NA	NA	NA	NA
Aroclor-1248		NA	NA	NA	NA	NA NA
Aroclor-1254		NA	NA	NA NA	NA	NA NA
Aroclor-1260 Total PCBs		NA NA	NA NA	NA NA	NA NA	NA NA
Semivolatile Orga	nice	INA	INA	INA	INA	INA
1,2,4,5-Tetrachlor		ND(0.053)	NA	NA NA	NA	NA NA
1,2,4,5-Tetrachioro		ND(0.053)	NA NA	NA NA	NA NA	NA NA
1,2-Dichlorobenze		0.12	NA NA	NA NA	NA NA	NA NA
1,2-Diphenylhydra		ND(0.053)	NA	NA NA	NA NA	NA NA
1,3,5-Trinitrobenze		ND(0.26)	NA	NA	NA	NA NA
1,3-Dichlorobenze		0.0090 J	NA	NA	NA	NA NA
1,3-Dinitrobenzene	Э	ND(0.053)	NA	NA	NA	NA
1,4-Dichlorobenze	ne	0.25	NA	NA	NA	NA
1,4-Naphthoquinor	ne	ND(0.053)	NA	NA	NA	NA
1-Naphthylamine		ND(0.26)	NA	NA	NA	NA
2,3,4,6-Tetrachlor		ND(0.053)	NA	NA	NA	NA
2,4,5-Trichlorophe		ND(0.053)	NA	NA	NA	NA NA
2,4,6-Trichlorophe		ND(0.053)	NA	NA	NA	NA NA
2,4-Dichloropheno		ND(0.053)	NA	NA NA	NA NA	NA NA
2,4-Dimethylphenol	DI	ND(0.053) ND(0.26)	NA NA	NA NA	NA NA	NA NA
2,4-Dinitroprierior		ND(0.26)	NA NA	NA NA	NA NA	NA NA
2,6-Dichloropheno	ı	ND(0.053)	NA NA	NA NA	NA NA	NA NA
2.6-Dinitrotoluene	''	ND(0.053)	NA NA	NA NA	NA NA	NA NA
2-Acetylaminofluor	rene	ND(0.11)	NA	NA	NA	NA NA
2-Chloronaphthale		ND(0.053)	NA	NA	NA	NA
2-Chlorophenol		ND(0.053)	NA	NA	NA	NA
2-Methylnaphthale	ne	ND(0.053)	NA	NA	NA	NA
2-Methylphenol		ND(0.053)	NA	NA	NA	NA
2-Naphthylamine		ND(0.26)	NA	NA	NA	NA
2-Nitroaniline		ND(0.053)	NA	NA	NA	NA
2-Nitrophenol		ND(0.053)	NA NA	NA NA	NA NA	NA NA
2-Picoline 3&4-Methylphenol		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
3,3'-Dichlorobenzio	dino	ND(0.053)	NA NA	NA NA	NA NA	NA NA
3,3'-Dimethylbenzi		ND(0.11) ND(0.26)	NA NA	NA NA	NA NA	NA NA
3-Methylcholanthre		ND(0.053)	NA NA	NA NA	NA NA	NA NA
3-Nitroaniline	ono	ND(0.26)	NA NA	NA NA	NA NA	NA NA
4,6-Dinitro-2-meth	ylphenol	ND(0.26)	NA	NA	NA	NA
4-Aminobiphenyl	7 1	ND(0.053)	NA	NA	NA	NA
4-Bromophenyl-ph	enylether	ND(0.053)	NA	NA	NA	NA
4-Chloro-3-Methyl	phenol	ND(0.053)	NA	NA	NA	NA
4-Chloroaniline		ND(0.26)	NA	NA	NA	NA
4-Chlorobenzilate		ND(0.053)	NA	NA	NA	NA
4-Chlorophenol		NA NA	NA	NA	NA	NA
4-Chlorophenyl-ph	enylether	ND(0.053)	NA NA	NA NA	NA	NA NA
4-Nitroaniline 4-Nitrophenol		ND(0.26) ND(0.26)	NA NA	NA NA	NA NA	NA NA
4-Nitrophenol 4-Nitroquinoline-1-	ovide	ND(0.26) ND(0.26)	NA NA	NA NA	NA NA	NA NA
4-Phenylenediamii		ND(0.26) ND(0.11)	NA NA	NA NA	NA NA	NA NA
5-Nitro-o-toluidine		ND(0.053)	NA NA	NA NA	NA NA	NA NA
7,12-Dimethylbenz		ND(0.053)	NA NA	NA NA	NA NA	NA NA
a,a'-Dimethylphen	` '	ND(0.26)	NA NA	NA NA	NA NA	NA NA
Acenaphthene		ND(0.053)	NA	NA	NA	NA NA
Acenaphthylene		ND(0.053)	NA	NA	NA	NA NA
Acetophenone		ND(0.053)	NA	NA	NA	NA
Aniline		ND(0.053)	NA	NA	NA	NA
Anthracene		ND(0.053)	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	39B-R	39D-R	39E	43A	43B
Parameter	Date Collected:	04/30/08	04/30/08	05/06/08	04/30/08	04/30/08
	ganics (continued)					
Aramite		ND(0.053)	NA	NA	NA	NA
Benzidine		ND(0.11)	NA	NA	NA	NA
Benzo(a)anthrac	ene	ND(0.053)	NA NA	NA	NA	NA NA
Benzo(a)pyrene	la a a	ND(0.053)	NA NA	NA NA	NA NA	NA NA
Benzo(b)fluorant		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
Benzo(g,h,i)pery Benzo(k)fluorant		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Benzyl Alcohol	ilelle	ND(0.033)	NA NA	NA NA	NA NA	NA NA
bis(2-Chloroetho	xv)methane	ND(0.053)	NA NA	NA	NA NA	NA NA
bis(2-Chloroethy		ND(0.053)	NA	NA	NA	NA NA
bis(2-Chloroisop		ND(0.053)	NA	NA	NA	NA
bis(2-Ethylhexyl)	phthalate	ND(0.053)	NA	NA	NA	NA
Butylbenzylphtha	alate	ND(0.053)	NA	NA	NA	NA
Chrysene		ND(0.053)	NA	NA	NA	NA
Diallate		ND(0.053)	NA	NA	NA	NA
Dibenzo(a,h)anth	nracene	ND(0.053)	NA	NA	NA	NA
Dibenzofuran		ND(0.053)	NA NA	NA	NA NA	NA NA
Diethylphthalate	-	ND(0.053)	NA NA	NA NA	NA NA	NA NA
Dimethylphthalat		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthala Di-n-Octylphthala		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Diphenylamine	ale	ND(0.053)	NA NA	NA NA	NA NA	NA NA
Ethyl Methanesu	Ifonate	ND(0.053)	NA NA	NA NA	NA NA	NA NA
Fluoranthene		ND(0.053)	NA	NA	NA	NA NA
Fluorene		ND(0.053)	NA	NA	NA	NA NA
Hexachlorobenze	ene	ND(0.053)	NA	NA	NA	NA
Hexachlorobutac	diene	ND(0.053)	NA	NA	NA	NA
Hexachlorocyclo		ND(0.11)	NA	NA	NA	NA
Hexachloroethan		ND(0.053)	NA	NA	NA	NA
Hexachlorophen		ND(0.053)	NA	NA	NA	NA
Hexachloroprope		ND(0.11)	NA NA	NA NA	NA NA	NA NA
Indeno(1,2,3-cd)	pyrene	ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
Isophorone		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Isosafrole		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Methapyrilene		ND(0.053)	NA NA	NA	NA NA	NA NA
Methyl Methanes	sulfonate	ND(0.053)	NA	NA	NA	NA NA
Naphthalene		0.091	NA	NA	NA	NA
Nitrobenzene		ND(0.053)	NA	NA	NA	NA
N-Nitrosodiethyla	amine	ND(0.053)	NA	NA	NA	NA
N-Nitrosodimethy		ND(0.053)	NA	NA	NA	NA
N-Nitroso-di-n-bu		ND(0.053)	NA	NA	NA	NA
N-Nitroso-di-n-pr		ND(0.053)	NA	NA	NA	NA
N-Nitrosodiphen	•	ND(0.053)	NA NA	NA NA	NA NA	NA NA
N-Nitrosomethyle	*	ND(0.053)	NA NA	NA NA	NA NA	NA NA
N-Nitrosomorpho N-Nitrosopiperidi		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
N-Nitrosopyrrolic		ND(0.053)	NA NA	NA NA	NA NA	NA NA
o,o,o-Triethylpho		ND(0.053)	NA NA	NA NA	NA NA	NA NA
o-Toluidine	-,	ND(0.053)	NA NA	NA NA	NA NA	NA NA
p-Dimethylamino	pazobenzene	ND(0.053)	NA	NA	NA	NA NA
Pentachlorobenz	rene	ND(0.053)	NA	NA	NA	NA
Pentachloroetha		ND(0.053)	NA	NA	NA	NA
Pentachloronitro		ND(0.053)	NA	NA	NA	NA
Pentachloropher	nol	ND(0.26)	NA	NA	NA	NA
Phenacetin		ND(0.053)	NA NA	NA	NA	NA NA
Phenanthrene		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Phenol		0.038 J	NA NA	NA NA	NA NA	NA NA
Pyropo		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
Pyrene Pyridine		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Safrole		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Thionazin		ND(0.033)	NA NA	NA NA	NA NA	NA NA
		(3.11)	. 47 1	. ",		, .

Table E-1 Spring 2008 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	39B-R 04/30/08	39D-R 04/30/08	39E 05/06/08	43A 04/30/08	43B 04/30/08	
	tion Parameters	0 1100/00	0 1100100	00/00/00	0 1100700	0.1100100	
Alkalinity		310	130	87.0	520	580 [580]	
Chloride		110	5.5	25	22	53 [50]	
Dissolved Iron		ND(0.100)	0.0401 B	1.21	ND(0.100)	0.0246 B [0.0199 B]	
Dissolved Organic Carbon		6.24	0.844 B	4.35	2.03	2.77 [2.74]	
Ethane		ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10) [ND(0.10)]	
Ethene		ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10) [ND(0.10)]	
Methane		0.182	ND(0.00720)	1.16	0.0180	1.51 [1.66]	
Nitrate Nitrogen		0.507	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300) [ND(0.300)]	
Nitrite Nitrogen		ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300) [ND(0.300)]	
Sulfate (turbidim	etric)	5.61	20.4	ND(0.300)	103	ND(0.300) [ND(0.300)]	

Table E-1 Spring 2008 Groundwater Analytical Results

D	Sample ID:	51-14	82B-R	89A	89B	89D-R	
Parameter	Date Collected:	05/02/08	05/02/08	05/05/08	05/05/08	05/05/08	
Volatile Organics							
1,1,1,2-Tetrachloroethane		ND(0.0010) ND(0.0010)	NA NA	ND(1.0) ND(1.0)	ND(0.0020) ND(0.0020)	ND(1.6) ND(1.6)	
1,1,1-Trichloroethane		ND(0.0010)	NA NA	ND(1.0) ND(1.0)	ND(0.0020)	ND(1.6)	
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1.1-Dichloroethan		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,1-Dichloroethen		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,2,3-Trichloropro		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,2-Dibromo-3-ch		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
1,2-Dibromoethar		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,2-Dichloroethan	ne	ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,2-Dichloropropa	ane	ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,4-Dioxane		ND(0.10)	NA	ND(100)	ND(0.20)	ND(160)	
2-Butanone		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
2-Chloro-1,3-buta		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
2-Chloroethylviny	lether	ND(0.013)	NA	ND(13)	ND(0.025)	ND(20)	
2-Hexanone		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
3-Chloropropene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
4-Methyl-2-pentar	none	ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
Acetone		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
Acetonitrile		ND(0.020)	NA	ND(20)	ND(0.040)	ND(32)	
Acrolein		ND(0.025)	NA	ND(25)	ND(0.050)	ND(40)	
Acrylonitrile		ND(0.025)	NA	ND(25)	ND(0.050)	ND(40)	
Benzene		ND(0.0010)	NA NA	7.1	0.0067	8.1	
Bromodichlorome	etnane	ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Bromoform		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Bromomethane Carbon Disulfide		ND(0.0010)	NA NA	ND(1.0) ND(1.0)	ND(0.0020) ND(0.0020)	ND(1.6)	
Carbon Distillide	rido	ND(0.0010) 0.0013	NA NA	ND(1.0) ND(1.0)	ND(0.0020)	ND(1.6) ND(1.6)	
Chlorobenzene	nae	ND(0.0010)	NA NA	ND(1.0) 26	0.048	32	
Chloroethane		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Chloroform		0.0039	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Chloromethane		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
cis-1,3-Dichloropr	onene	ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Dibromochlorome		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Dibromomethane		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Dichlorodifluorom		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Ethyl Methacrylate		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Ethylbenzene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Iodomethane		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Isobutanol		ND(0.050)	NA	ND(50)	ND(0.10)	ND(80)	
Methacrylonitrile		ND(0.010)	NA	ND(10)	ND(0.020)	ND(16)	
Methyl Methacrylate		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Methylene Chloric	de	ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
Propionitrile		ND(0.020)	NA	ND(20)	ND(0.040)	ND(32)	
Styrene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Tetrachloroethene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Toluene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
trans-1,2-Dichloroethene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
trans-1,3-Dichloropropene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
trans-1,4-Dichloro-2-butene		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
Trichloroethene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Trichlorofluoromethane		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Vinyl Acetate		ND(0.0025)	NA	ND(2.5)	ND(0.0050)	ND(4.0)	
Vinyl Chloride		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Xylenes (total)		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Total VOCs		0.0052	NA	33	0.055	40	

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	51-14	82B-R	89A	89B	89D-R
Parameter	Date Collected:	05/02/08	05/02/08	05/05/08	05/05/08	05/05/08
PCBs-Filtered						
Aroclor-1016		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1221		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1232		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1242		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1248		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1254		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1260		NA NA	ND(0.000068) [ND(0.000081)]	NA NA	NA NA	NA NA
Total PCBs	-mi	NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Semivolatile Org		NA	I NA	I NIA	NIA I	NA
1,2,4,5-Tetrachlor 1,2,4-Trichlorober		NA NA	NA NA	NA NA	NA NA	NA NA
1,2-Dichlorobenze		NA NA	NA NA	NA NA	NA NA	NA NA
1,2-Diphenylhydra		NA NA	NA NA	NA NA	NA NA	NA NA
1,3,5-Trinitrobenz		NA NA	NA NA	NA NA	NA NA	NA NA
1,3-Dichlorobenze		NA NA	NA NA	NA NA	NA NA	NA NA
1,3-Dinitrobenzen		NA NA	NA NA	NA NA	NA NA	NA NA
1,4-Dichlorobenze		NA	NA NA	NA	NA	NA
1,4-Naphthoquinone		NA	NA NA	NA	NA	NA
1-Naphthylamine		NA	NA NA	NA	NA	NA
2,3,4,6-Tetrachlor	ophenol	NA	NA	NA	NA	NA
2,4,5-Trichlorophe	enol	NA	NA	NA	NA	NA
2,4,6-Trichlorophe	enol	NA	NA	NA	NA	NA
2,4-Dichloropheno		NA	NA	NA	NA	NA
2,4-Dimethylphen	ol	NA	NA	NA	NA	NA
2,4-Dinitrophenol		NA	NA	NA	NA	NA
2,4-Dinitrotoluene		NA	NA	NA	NA	NA
2,6-Dichloropheno		NA	NA	NA	NA	NA
2,6-Dinitrotoluene		NA NA	NA NA	NA	NA NA	NA
2-Acetylaminofluo		NA	NA NA	NA NA	NA NA	NA
2-Chlorophenol	ene	NA NA	NA NA	NA ND(0.0052)	NA ND(0.0051)	NA NA
2-Methylnaphthale	nno.	NA NA	NA NA	NA NA	NA NA	NA NA
2-Methylphenol	STIC .	NA NA	NA NA	NA NA	NA NA	NA NA
2-Naphthylamine		NA NA	NA NA	NA NA	NA NA	NA NA
2-Nitroaniline		NA NA	NA NA	NA NA	NA NA	NA NA
2-Nitrophenol		NA	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'-Dimethylbenz		NA	NA	NA	NA	NA
3-Methylcholanthr	ene	NA	NA	NA	NA	NA
3-Nitroaniline		NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol		NA NA	NA NA	NA	NA NA	NA
4-Aminobiphenyl		NA	NA NA	NA	NA	NA
4-Bromophenyl-ph	,	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chloro-3-Methyl	pnenoi	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chloroaniline 4-Chlorobenzilate		NA NA	NA NA	NA NA	NA NA	NA NA
4-Chlorophenol		NA NA	NA NA	ND(0.0052)	ND(0.0051)	NA NA
4-Chlorophenyl-ph	nenvlether	NA NA	NA NA	NA	NA NA	NA NA
4-Nitroaniline		NA NA	NA NA	NA NA	NA NA	NA NA
4-Nitrophenol		NA NA	NA NA	NA NA	NA NA	NA NA
4-Nitroquinoline-1-oxide		NA	NA NA	NA	NA NA	NA
4-Phenylenediamine		NA	NA NA	NA	NA	NA
5-Nitro-o-toluidine		NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene		NA	NA NA	NA	NA	NA
a,a'-Dimethylphenethylamine		NA	NA	NA	NA	NA
Acenaphthene		NA	NA	NA	NA	NA
Acenaphthylene		NA	NA	NA	NA	NA
Acetophenone		NA	NA	NA	NA	NA
Aniline		NA	NA	NA	NA	NA
Anthracene		NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	51-14	82B-R	89A	89B	89D-R
Parameter	Date Collected:	05/02/08	05/02/08	05/05/08	05/05/08	05/05/08
Semivolatile Orga	nics (continued)					
Aramite		NA	NA	NA	NA	NA
Benzidine		NA	NA	NA	NA	NA
Benzo(a)anthracen	е	NA	NA NA	NA	NA	NA
Benzo(a)pyrene		NA NA	NA NA	NA NA	NA NA	NA
Benzo(b)fluoranthe Benzo(g,h,i)peryler		NA NA	NA NA	NA NA	NA NA	NA NA
Benzo(g,n,i)peryier Benzo(k)fluoranthe		NA NA	NA NA	NA NA	NA NA	NA NA
Benzyl Alcohol	110	NA NA	NA NA	NA NA	NA NA	NA NA
bis(2-Chloroethoxy	)methane	NA	NA NA	NA	NA	NA
bis(2-Chloroethyl)e		NA	NA	NA	NA	NA
bis(2-Chloroisopro		NA	NA	NA	NA	NA
bis(2-Ethylhexyl)ph	thalate	NA	NA	NA	NA	NA
Butylbenzylphthala	te	NA	NA	NA	NA	NA
Chrysene		NA	NA	NA	NA	NA
Diallate		NA	NA NA	NA	NA	NA
Dibenzo(a,h)anthra	icene	NA NA	NA NA	NA NA	NA NA	NA
Dibenzofuran Diethylphthalate		NA NA	NA NA	NA NA	NA NA	NA NA
Dietnylphthalate Dimethylphthalate		NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthalate	1	NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Octylphthalate		NA NA	NA NA	NA NA	NA NA	NA NA
Diphenylamine		NA	NA NA	NA	NA	NA
Ethyl Methanesulfo	nate	NA	NA	NA	NA	NA
Fluoranthene		NA	NA	NA	NA	NA
Fluorene		NA	NA	NA	NA	NA
Hexachlorobenzen		NA	NA	NA	NA	NA
Hexachlorobutadie		NA	NA	NA	NA	NA
Hexachlorocyclope	ntadiene	NA	NA NA	NA	NA	NA
Hexachloroethane Hexachlorophene		NA NA	NA NA	NA NA	NA NA	NA NA
Hexachloropropend	3	NA NA	NA NA	NA NA	NA NA	NA NA
Indeno(1,2,3-cd)py		NA NA	NA NA	NA NA	NA NA	NA NA
Isodrin	10110	NA NA	NA NA	NA NA	NA NA	NA NA
Isophorone		NA	NA	NA	NA	NA
Isosafrole		NA	NA	NA	NA	NA
Methapyrilene		NA	NA	NA	NA	NA
Methyl Methanesul	fonate	NA	NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA	NA
Nitrobenzene	t	NA	NA NA	NA NA	NA NA	NA
N-Nitrosodiethylam		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosodimethyla N-Nitroso-di-n-buty		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitroso-di-n-prop		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosodiphenyla		NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosomethyleth		NA	NA	NA	NA	NA
N-Nitrosomorpholir	ne	NA	NA	NA	NA	NA
N-Nitrosopiperidine		NA	NA	NA	NA	NA
N-Nitrosopyrrolidin		NA	NA	NA	NA	NA
o,o,o-Triethylphosp	horothioate	NA	NA	NA	NA	NA
o-Toluidine	- b	NA	NA NA	NA NA	NA NA	NA
p-Dimethylaminoaz Pentachlorobenzer		NA NA	NA NA	NA NA	NA NA	NA NA
Pentachloroethane		NA NA	NA NA	NA NA	NA NA	NA NA
Pentachloronitrobe		NA NA	NA NA	NA NA	NA NA	NA NA
Pentachlorophenol	50	NA NA	NA NA	NA NA	NA NA	NA NA
Phenacetin		NA	NA NA	NA	NA	NA
Phenanthrene		NA	NA	NA	NA	NA
Phenol		NA	NA	NA	NA	NA
Pronamide		NA	NA	NA	NA	NA
Pyrene		NA	NA NA	NA	NA	NA
Pyridine		NA	NA NA	NA NA	NA NA	NA
Safrole		NA NA	NA NA	NA NA	NA NA	NA
Thionazin		NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	51-14	82B-R	89A	89B	89D-R
Parameter	Date Collected:	05/02/08	05/02/08	05/05/08	05/05/08	05/05/08
Natural Attenua	ation Parameters					
Alkalinity		NA	NA	330	160	320
Chloride		NA	NA	380	180	590
Dissolved Iron		NA	NA	ND(0.100)	0.902	0.141
Dissolved Organ	nic Carbon	NA	NA	7.00	5.28	8.52
Ethane		NA	NA	ND(0.20)	ND(0.020)	ND(0.10)
Ethene		NA	NA	ND(0.20)	ND(0.020)	0.76
Methane		NA	NA	4.36	0.338	1.62
Nitrate Nitrogen		NA	NA	ND(0.300)	ND(0.300)	ND(0.300)
Nitrite Nitrogen		NA	NA	ND(3.00)	ND(0.300)	ND(3.00)
Sulfate (turbidim	netric)	NA	NA	ND(0.300)	0.582	2.68

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	90A	90B	95A	95B-R	111A-R	111B-R
Parameter	Date Collected:	05/14/08	05/14/08	05/14/08	05/08/08	05/06/08	05/14/08
Volatile Organics	S						
1,1,1,2-Tetrachlor		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1,1-Trichloroeth		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachlor		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroeth		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethan		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethen		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropro		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-ch		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethar		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethan		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropa	ine	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,4-Dioxane		ND(0.10)	ND(0.10)	ND(0.10)	ND(40)	ND(0.10)	ND(0.10)
2-Butanone		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
2-Chloro-1,3-buta		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
2-Chloroethylviny	lether	ND(0.013)	ND(0.013)	ND(0.013)	ND(5.0)	ND(0.013)	ND(0.013)
2-Hexanone		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
3-Chloropropene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
4-Methyl-2-pentar	none	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
Acetone		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
Acetonitrile		ND(0.020)	ND(0.020)	ND(0.020)	ND(8.0)	ND(0.020)	ND(0.020)
Acrolein		ND(0.025)	ND(0.025)	ND(0.025)	ND(10)	ND(0.025)	ND(0.025)
Acrylonitrile		ND(0.025)	ND(0.025)	ND(0.025)	ND(10)	ND(0.025)	ND(0.025)
Benzene		ND(0.0010)	ND(0.0010)	ND(0.0010)	2.3	ND(0.0010)	ND(0.0010)
Bromodichlorome	thane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Bromoform		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Bromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Carbon Disulfide		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Carbon Tetrachlo	ride	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Chlorobenzene		ND(0.0010)	ND(0.0010)	0.00035 J	10	ND(0.0010)	ND(0.0010)
Chloroethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Chloroform		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Chloromethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
cis-1,3-Dichloropr		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Dibromochlorome	tnane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Dibromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Dichlorodifluorom		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate	9	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Ethylbenzene lodomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40) ND(20)	ND(0.0010)	ND(0.0010)
Isobutanol Methacrylonitrile		ND(0.050) ND(0.010)	ND(0.050) ND(0.010)	ND(0.050)	ND(20) ND(4.0)	ND(0.050)	ND(0.050) ND(0.010)
	140			ND(0.010)		ND(0.010) ND(0.0010)	
Methyl Methacryla Methylene Chloric		ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)	ND(0.40) 0.18 J	ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)
Propionitrile	ie ie				ND(8.0)	ND(0.0050)	` '
		ND(0.020) ND(0.0010)	ND(0.020) ND(0.0010)	ND(0.020) ND(0.0010)	ND(8.0) ND(0.40)	ND(0.020)	ND(0.020) ND(0.0010)
Styrene		115 (0.0010)	115 (0.0010)	115 (0.0010)	115 (2.42)	115 (0.0010)	115 (2 22 42)
Toluene	<del>;</del>	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.40) ND(0.40)	ND(0.0010) 0.00015 J	ND(0.0010) ND(0.0010)
	othono	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloro		ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40) ND(0.40)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichlord		ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010) ND(0.0050)
Trichloroethene	7-2-DUIGHE	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0) ND(0.40)	ND(0.0050)	ND(0.0050)
Trichlorofluorome	thana		` '	ND(0.0010)	ND(0.40) ND(0.40)	, ,	ND(0.0010)
Vinvl Acetate	ulaile	ND(0.0010) ND(0.0025)	ND(0.0010) ND(0.0025)	ND(0.0010) ND(0.0025)	ND(0.40) ND(1.0)	ND(0.0010) ND(0.0025)	ND(0.0010) ND(0.0025)
Vinyl Acetate Vinyl Chloride		ND(0.0025) ND(0.0010)	ND(0.0025)	ND(0.0025)	ND(1.0) ND(0.40)	ND(0.0025)	ND(0.0025)
Xvlenes (total)		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	0.00010)	ND(0.0010)
Total VOCs		ND(0.0010) ND(0.10)	ND(0.0010)	0.00035 J	12 J	0.00011 J 0.00026 J	ND(0.0010)
TOTAL VOUS		ואט(ט.וט)	(ט. וט) טאו	U.UUUJJ J	12 J	0.00026 J	ואט(ט. וט)

Table E-1 Spring 2008 Groundwater Analytical Results

Sample ID:	90A	90B	95A	95B-R	111A-R	111B-R
Parameter Date Collected:	05/14/08	05/14/08	05/14/08	05/08/08	05/06/08	05/14/08
PCBs-Filtered						
Aroclor-1016	NA	NA	NA	NA	NA	NA
Aroclor-1221	NA	NA	NA	NA	NA	NA
Aroclor-1232	NA	NA	NA	NA	NA	NA
Aroclor-1242	NA	NA	NA	NA	NA	NA
Aroclor-1248	NA	NA	NA	NA	NA	NA
Aroclor-1254	NA	NA	NA	NA	NA	NA
Aroclor-1260	NA	NA	NA	NA	NA	NA
Total PCBs	NA	NA	NA	NA	NA	NA
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA NA	NA	NA	NA NA	NA NA	NA NA
1,4-Naphthoquinone	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
1-Naphthylamine 2,3,4,6-Tetrachlorophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,3,4,6-1 etracniorophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4,5-1 richlorophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dichlorophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dimethylphenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dinitrophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dinitrotoluene	NA	NA	NA NA	NA NA	NA NA	NA
2,6-Dichlorophenol	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA
2-Acetylaminofluorene	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	ND(0.0052)	ND(0.014)	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA
2-Naphthylamine	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA
2-Picoline	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA NA	NA
3,3'-Dimethylbenzidine	NA	NA NA	NA NA	NA	NA NA	NA
3-Methylcholanthrene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
3-Nitroaniline 4,6-Dinitro-2-methylphenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Aminobiphenyl	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Bromophenyl-phenylether	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chloro-3-Methylphenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chloroaniline	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chlorobenzilate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chlorophenol	NA NA	NA NA	ND(0.0052)	ND(0.022)	NA NA	NA NA
4-Chlorophenyl-phenylether	NA NA	NA	NA	NA	NA NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	NA	NA	NA
4-Phenylenediamine	NA	NA	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	NA	NA
a,a'-Dimethylphenethylamine	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

Sample ID:	90A	90B	95A	95B-R	111A-R	111B-R
Parameter Date Collected:	05/14/08	05/14/08	05/14/08	05/08/08	05/06/08	05/14/08
Semivolatile Organics (continued)						
Aramite	NA	NA	NA NA	NA	NA	NA
Benzidine	NA NA	NA NA				
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA NA	NA NA	NA	NA NA	NA NA
Butylbenzylphthalate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Chrysene Diallate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Dibenzo(a,h)anthracene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Dibenzofuran	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Diethylphthalate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Dimethylphthalate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthalate	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	NA	NA	NA	NA	NA	NA
Diphenylamine	NA	NA	NA	NA	NA	NA
Ethyl Methanesulfonate	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA NA	NA	NA	NA NA	NA
Hexachlorophene	NA	NA NA	NA NA	NA	NA NA	NA NA
Hexachloropropene Indeno(1,2,3-cd)pyrene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Isodrin	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Isophorone	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Isosafrole	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Methapyrilene	NA	NA	NA	NA	NA	NA
Methyl Methanesulfonate	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-butylamine	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA
N-Nitrosomethylethylamine	NA	NA	NA NA	NA	NA	NA
N-Nitrosomorpholine N-Nitrosopiperidine	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosopiperidine N-Nitrosopyrrolidine	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
o,o,o-Triethylphosphorothioate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
o-Toluidine	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
p-Dimethylaminoazobenzene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Pentachlorobenzene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Pentachloroethane	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA
Phenacetin	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA
Pronamide	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA
Safrole	NA	NA	NA	NA	NA	NA
Thionazin	NA	NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	90A	90B	95A	95B-R	111A-R	111B-R
Parameter	Date Collected:	05/14/08	05/14/08	05/14/08	05/08/08	05/06/08	05/14/08
Natural Attenua	tion Parameters						
Alkalinity		180	110	130	240	140	160
Chloride		14	8.5	0.77	160	86	4.3
Dissolved Iron		0.0211 B	3.68	ND(0.100)	0.0214 B	0.0432 B	0.0449 B
Dissolved Organ	ic Carbon	1.60	5.77	0.660 B	3.92	1.18	1.31
Ethane		ND(0.020)	ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.020)
Ethene		ND(0.020)	ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.020)
Methane		0.0930	0.0700	0.156	0.871	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen		ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	4.29
Nitrite Nitrogen		ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)
Sulfate (turbidime	etric)	14.2	12.1	4.41	4.76	71.6	169

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	114A	114B-R	115A	115B	
Parameter	Date Collected:	05/13/08	05/13/08	05/15/08	05/15/08	
Volatile Organics						
1,1,1,2-Tetrachlord	ethane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1,1-Trichloroetha	ne	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1,2,2-Tetrachlord	ethane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1,2-Trichloroetha	ane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1-Dichloroethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1-Dichloroethene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,2,3-Trichloroprop		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,2-Dibromo-3-chlo		ND(0.0050)	ND(0.20)	ND(0.0050)	ND(0.0050)	
1,2-Dibromoethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,2-Dichloroethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,2-Dichloropropar	ne	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,4-Dioxane		ND(0.10)	ND(4.0)	ND(0.10)	ND(0.10)	
2-Butanone		0.011	ND(0.20)	ND(0.0050)	ND(0.0050)	
2-Chloro-1,3-butac		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
2-Chloroethylvinyle	ether	ND(0.013)	ND(0.50)	ND(0.013)	ND(0.013)	
2-Hexanone		ND(0.0050)	ND(0.20)	ND(0.0050)	ND(0.0050)	
3-Chloropropene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
4-Methyl-2-pentano	one	ND(0.0050)	ND(0.20)	ND(0.0050)	ND(0.0050)	
Acetone		0.15	ND(0.20)	ND(0.0050)	ND(0.0050)	
Acetonitrile		ND(0.020)	ND(0.80)	ND(0.020)	ND(0.020)	
Acrolein		ND(0.025)	ND(1.0)	ND(0.025)	ND(0.025)	
Acrylonitrile		ND(0.025)	ND(1.0)	ND(0.025)	ND(0.025)	
Benzene Bramadiahlaramat	hana	ND(0.0010)	0.020 J ND(0.040)	ND(0.0010)	ND(0.0010) ND(0.0010)	
Bromodichloromet Bromoform	nane	ND(0.0010) ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Bromomethane		ND(0.0010)	ND(0.040)	ND(0.0010) ND(0.0010)	ND(0.0010)	
Carbon Disulfide		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Carbon Tetrachlori	de	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Chlorobenzene	ue	0.00018 J	1.4	ND(0.0010)	ND(0.0010)	
Chloroethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Chloroform		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Chloromethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
cis-1,3-Dichloropro	ppene	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Dibromochloromet	•	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Dibromomethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Dichlorodifluorome	ethane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Ethyl Methacrylate		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Ethylbenzene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Iodomethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Isobutanol		ND(0.050)	ND(2.0)	ND(0.050)	ND(0.050)	
Methacrylonitrile		ND(0.010)	ND(0.40)	ND(0.010)	ND(0.010)	
Methyl Methacrylat	ie	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Methylene Chloride	Э	ND(0.0050)	0.016 J	ND(0.0050)	ND(0.0050)	
Propionitrile		ND(0.020)	ND(0.80)	ND(0.020)	ND(0.020)	
Styrene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Tetrachloroethene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Toluene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
trans-1,2-Dichloroe	ethene	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
trans-1,3-Dichlorop		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
trans-1,4-Dichloro-	2-butene	ND(0.0050)	ND(0.20)	ND(0.0050)	ND(0.0050)	
Trichloroethene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Trichlorofluoromet	hane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Vinyl Acetate		ND(0.0025)	ND(0.10)	ND(0.0025)	ND(0.0025)	
Vinyl Chloride		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Xylenes (total)		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Total VOCs		0.16	1.4 J	ND(0.10)	ND(0.10)	

Table E-1 Spring 2008 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	114A 05/13/08	114B-R 05/13/08	115A 05/15/08	115B 05/15/08
PCBs-Filtered	•			•	
Aroclor-1016		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1221		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1232		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1242		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1248		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1254		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1260		ND(0.000067)	ND(0.000068)	NA NA	NA
Total PCBs		ND(0.000067)	ND(0.000068)	NA NA	NA NA
Semivolatile Organ	ice	110(0.000001)	14D(0.000000)	14/1	14/1
1.2.4.5-Tetrachlorob		NA	NA	NA	NA
1,2,4-Trichlorobenze		NA NA	NA NA	NA NA	NA NA
1,2-Dichlorobenzene		NA NA	NA NA	NA NA	NA NA
,				NA NA	NA NA
1,2-Diphenylhydrazir		NA NA	NA NA		
1,3,5-Trinitrobenzene		NA NA	NA NA	NA NA	NA NA
1,3-Dichlorobenzene		NA NA	NA	NA	NA NA
1,3-Dinitrobenzene		NA	NA	NA	NA
1,4-Dichlorobenzene		NA NA	NA NA	NA	NA NA
1,4-Naphthoquinone		NA NA	NA NA	NA NA	NA NA
1-Naphthylamine		NA NA	NA	NA NA	NA NA
2,3,4,6-Tetrachloropl		NA	NA	NA	NA
2,4,5-Trichloropheno		NA	NA	NA	NA
2,4,6-Trichloropheno	I	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-Acetylaminofluorer	ne	NA	NA	NA	NA
2-Chloronaphthalene	)	NA	NA	NA	NA
2-Chlorophenol		NA	NA	NA	NA
2-Methylnaphthalene	1	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'-Dichlorobenzidir	ie	NA	NA	NA	NA
3,3'-Dimethylbenzidii	ne	NA	NA	NA	NA
3-Methylcholanthren		NA	NA	NA	NA
3-Nitroaniline	_	NA	NA	NA	NA
4,6-Dinitro-2-methylp	henol	NA	NA	NA	NA
4-Aminobiphenyl		NA NA	NA NA	NA NA	NA NA
4-Bromophenyl-pher	vlether	NA NA	NA NA	NA NA	NA NA
4-Chloro-3-Methylph		NA NA	NA NA	NA NA	NA NA
4-Chloroaniline	01101	NA NA	NA NA	NA NA	NA NA
4-Chlorobenzilate		NA NA	NA NA	NA NA	NA NA
4-Chlorophenol		NA NA	NA NA	NA NA	NA NA
4-Chlorophenyl-pher	wlether	NA NA	NA NA	NA NA	NA NA
4-Nitroaniline	lyioti ioi	NA NA	NA NA	NA NA	NA NA
4-Nitrophenol		NA NA	NA NA	NA NA	NA NA
4-Nitropnenoi 4-Nitroquinoline-1-ox	ido	NA NA	NA NA	NA NA	NA NA
4-Phenylenediamine		NA NA	NA	NA NA	NA NA
5-Nitro-o-toluidine	) 1	NA NA	NA	NA	NA NA
7,12-Dimethylbenz(a	)anthracene	NA	NA	NA	NA
a,a'-Dimethylpheneth	nylamine	NA	NA	NA	NA
Acenaphthene		NA	NA	NA	NA
Acenaphthylene		NA	NA	NA	NA
Acetophenone		NA	NA	NA	NA
		NA	NA	NA	NA
Aniline Anthracene		NA NA	INA	INA	11/7

Table E-1 Spring 2008 Groundwater Analytical Results

Sample ID:	114A 05/12/08	114B-R	115A	115B
Parameter Date Collected: Semivolatile Organics (continued)	05/13/08	05/13/08	05/15/08	05/15/08
Aramite	NA	NA	NA NA	NA
Benzidine	NA NA	NA NA	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	NA NA	NA NA
Benzyl Alcohol pis(2-Chloroethoxy)methane	NA NA	NA NA	NA NA	NA NA
ois(2-Chloroethyl)ether	NA NA	NA NA	NA NA	NA NA
ois(2-Chloroisopropyl)ether	NA NA	NA NA	NA NA	NA NA
pis(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	NA NA
Dibenzofuran Diathylphthalata	NA NA	NA NA	NA NA	NA NA
Diethylphthalate Dimethylphthalate	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthalate	NA NA	NA NA	NA NA	NA NA
Di-n-Octylphthalate	NA NA	NA NA	NA NA	NA NA
Diphenylamine	NA NA	NA	NA NA	NA NA
Ethyl Methanesulfonate	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA
lexachlorobenzene	NA	NA	NA	NA
Hexachlorobutadiene	NA NA	NA	NA NA	NA NA
Hexachlorocyclopentadiene Hexachloroethane	NA NA	NA NA	NA NA	NA NA
Hexachlorophene	NA NA	NA NA	NA NA	NA NA
Hexachloropropene	NA NA	NA NA	NA NA	NA NA
ndeno(1,2,3-cd)pyrene	NA	NA	NA	NA
sodrin	NA	NA	NA	NA
sophorone	NA	NA	NA	NA
sosafrole	NA	NA	NA	NA
Methapyrilene	NA	NA	NA	NA
Methyl Methanesulfonate	NA NA	NA	NA NA	NA NA
Naphthalene Nitrobenzene	NA NA	NA NA	NA NA	NA NA
N-Nitrosodiethylamine	NA NA	NA NA	NA NA	NA NA
N-Nitrosodimethylamine	NA NA	NA NA	NA NA	NA NA
N-Nitroso-di-n-butylamine	NA	NA	NA NA	NA NA
N-Nitroso-di-n-propylamine	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA
N-Nitrosomethylethylamine	NA	NA	NA	NA
N-Nitrosomorpholine	NA	NA	NA	NA
N-Nitrosopiperidine	NA NA	NA	NA	NA NA
N-Nitrosopyrrolidine	NA NA	NA NA	NA NA	NA NA
o,o,o-Triethylphosphorothioate o-Toluidine	NA NA	NA NA	NA NA	NA NA
p-Dimethylaminoazobenzene	NA NA	NA NA	NA NA	NA NA
Pentachlorobenzene	NA NA	NA NA	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	NA NA
Pronamide	NA NA	NA NA	NA NA	NA NA
Pyrene	NA NA	NA NA	NA NA	NA NA
Pyridine Safrole	NA NA	NA NA	NA NA	NA NA
Thionazin	NA NA	NA NA	NA NA	NA NA

Table E-1 Spring 2008 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	114A 05/13/08	114B-R 05/13/08	115A 05/15/08	115B 05/15/08
Natural Attenua	ation Parameters		55,15,65	53.15.65	55,15755
Alkalinity		170	230	150	220
Chloride		1.4	160	0.83	18
Dissolved Iron		ND(0.100)	0.0461 B	ND(0.100)	ND(0.100)
Dissolved Organ	nic Carbon	4.36	4.61	0.684 B	1.42
Ethane		ND(2.0)	ND(0.10)	ND(0.020)	ND(0.020)
Ethene		ND(2.0)	ND(0.10)	ND(0.020)	ND(0.020)
Methane		10.9	1.32	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen		ND(0.300)	ND(0.300)	ND(0.300)	0.168 B
Nitrite Nitrogen		ND(0.300)	ND(3.00)	ND(0.300)	ND(0.300)
Sulfate (turbidim	etric)	1.88	9.43	4.03	14.8

#### Notes:

- Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- NA Not Analyzed.
- ND Analyte was not detected. The number in parenthesis 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, semivolatiles)

J - Indicates an estimated value less than the practical quantitation limit (PQL).

#### **Natural Attenuation Parameters**

B - Indicates an estimated value between the instrument detection limit (IDL) and (PQL).

### **ARCADIS**

### Appendix F

Historical Groundwater Data

### Table F-1 Summary Of Historical Groundwater Analytical Results For Benzene And Chlorobenzene -Well 6B-R

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Volatile Orga	Volatile Organics										
Benzene		2	10	100	6/7	0.099	15	0.700	3.89	0.551	5.57
Chlorobenzer	ne	0.2	1	10	6/7	0.073	5.3	0.920	1.74	0.347	2.04

- 1. Samples were collected by ARCADIS between 2002 and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

#### Table F-2 Summary Of Historical Groundwater Analytical Results For Vinyl Chloride-Well 16B-R

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards		Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Volatile Organi	Volatile Organics										
Vinyl Chloride		0.002	50	100	1/13	0.0015	0.0015	0.00100	0.00250	0.00172	0.00207

- 1. Samples were collected by ARCADIS between 1996and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

### Table F-3 Summary Of Historical Groundwater Analytical Results For Carbon Tetrachloride-Well 54-14

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards		Detection Frequency		Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation	
Volatile Organics												
Carbon Tetrachlo	oride	0.002	5	50	5/7	0.00029	0.0036	0.00140	0.00183	0.00150	0.00109	

- 1. Samples were collected by ARCADIS between 2002 and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

### Table F-4 Summary Of Historical Groundwater Analytical Results For Chlorobenzene -Well 78B-R

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation	
Volatile Organics												
Chlorobenzene		0.2	1	10	8/8	1.9	2.5	2.20	2.20	2.19	0.233	

- 1. Samples were collected by ARCADIS between 2002 and 2005 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

### Table F-5 Summary Of Historical Groundwater Analytical Results For For Benzene And Chlorobenzene -Well 89B

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:		Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation		
Volatile Organics													
Benzene		2	10	100	16/18	0.0014	5.8	0.115	0.775	0.0980	1.47		
Chlorobenzer	ne	0.2	1	10	17/18	0.01	15	0.765	2.99	0.801	4.57		

- 1. Samples were collected by ARCADIS between 2002 and 2005 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

### Table F-6 Summary Of Historical Groundwater Analytical Results For Chlorobenzene And cis-1,2-Dichloroethene-Well 95B

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation		
Volatile Organics													
Chlorobenzen	е	0.2	1	10	16/16	0.012	10	0.685	2.62	0.479	3.91		
cis-1,2-Dichlor	roethene	0.1	50	100	2/2	0.31	0.36	0.335	0.335	0.334	0.0354		

- 1. Samples were collected by ARCADIS between 1997and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

### Table F-7 Summary Of Historical Groundwater Analytical Results For Total TEQs (WHO TEFs)-Well 111B

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Dioxins										
Total TEQs	(WHO TEFs)	0.0000001	0.000001	3/3	###########	8.6E-08	0.00000000840	0.0000000339	0.0000000174	0.0000000451

- 1. Samples were collected by ARCADIS between 2004 and 2006 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

### Table F-8 Summary Of Historical Groundwater Analytical Results For Chlorobenzene-Well 114B-R

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

	Sample ID:	Method 1 GW-2	Method 1 GW-3	MCP UCL	Detection	Minimum	Maximum	Median	Arithmetic	Geometric	Standard			
Parameter	Date Collected:	Standards	Standards	for GroundWater	Frequency	Detect	Detect	Value	Average	Mean	Deviation			
Volatile Orga	Volatile Organics													
Chlorobenze	ne	0.2	1	10	16/17	0.0083	3.3	0.330	0.688	0.270	0.886			

- 1. Samples were collected by ARCADIS between 1991and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

### Table F-9 Summary Of Historical Groundwater Analytical Results For Cadmium-Well GMA3-6

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Sample ID: M Parameter Date Collected:		Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation			
Inorganics-F	Inorganics-Filtered												
Cadmium		0.004	0.05	1/5	0.0031	0.0031	0.00250	0.00312	0.00300	0.00108			

- 1. Samples were collected by ARCADIS between 2002 and 2005 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

### Table F-10 Summary Of Historical Groundwater Analytical Results For Vinyl Chloride-Well OBG-2

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:		Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation		
Volatile Orga	Volatile Organics												
Vinyl Chloride		0.002	50	100	1/4	0.0015	0.0015	0.00100	0.00113	0.00111	0.000250		

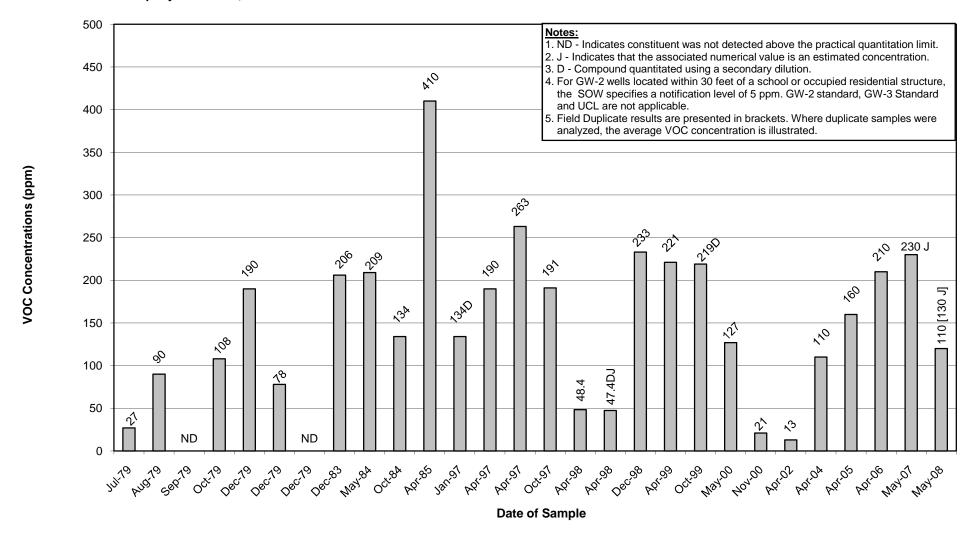
- 1. Samples were collected by ARCADIS between 2004 and 2005 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

### **ARCADIS**

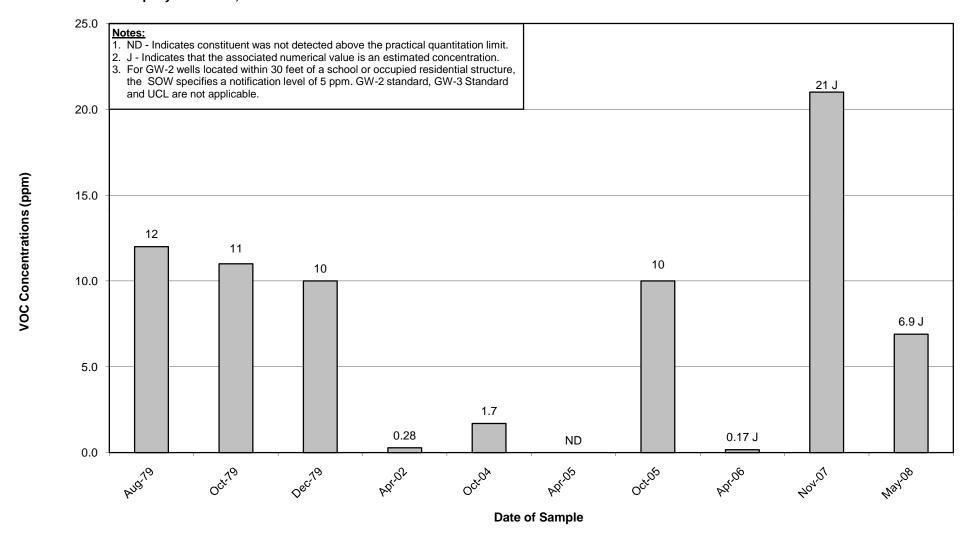
### **Historical Groundwater Data**

Total VOC Concentrations – Wells Sampled in Spring 2008

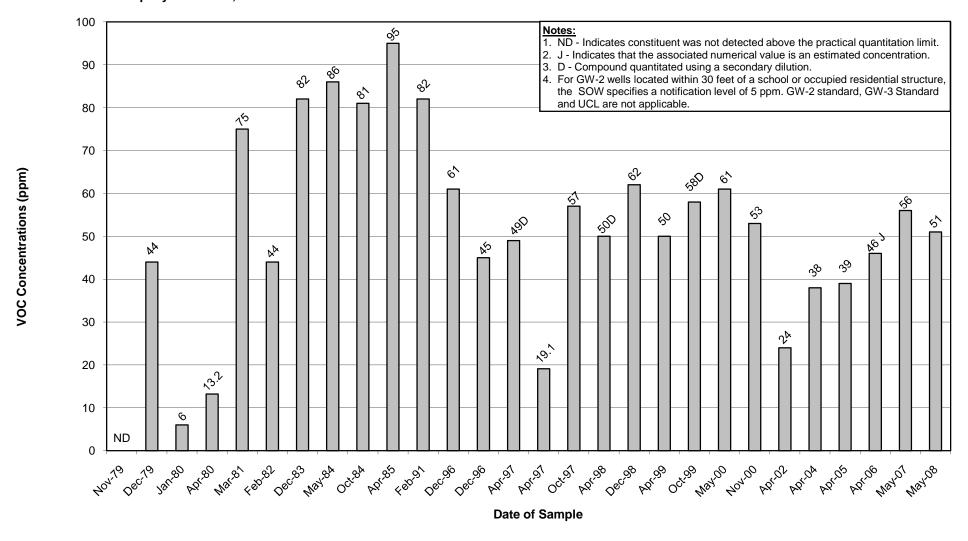
Appendix F
Well Historical 2A Total VOC Concentrations



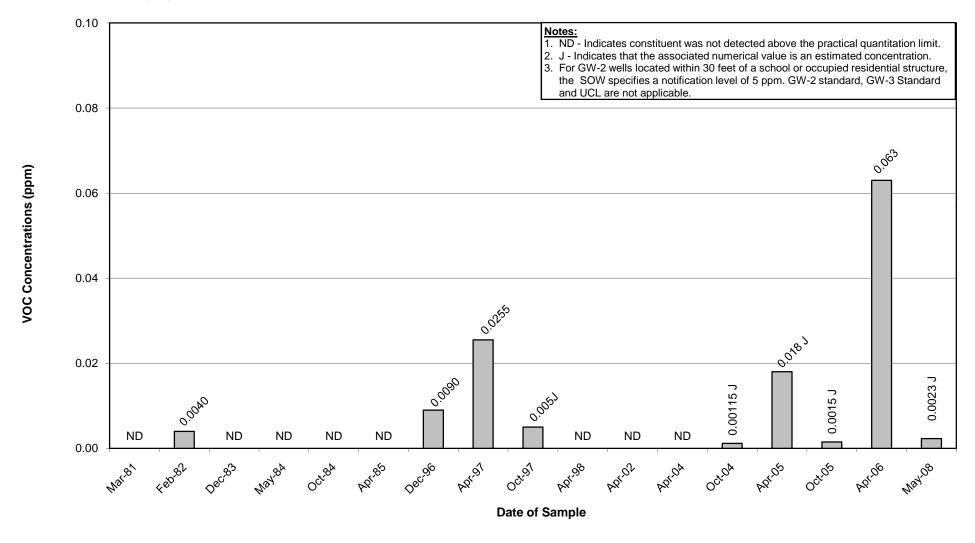
Appendix F
Well Historical 6B-R Total VOC Concentrations



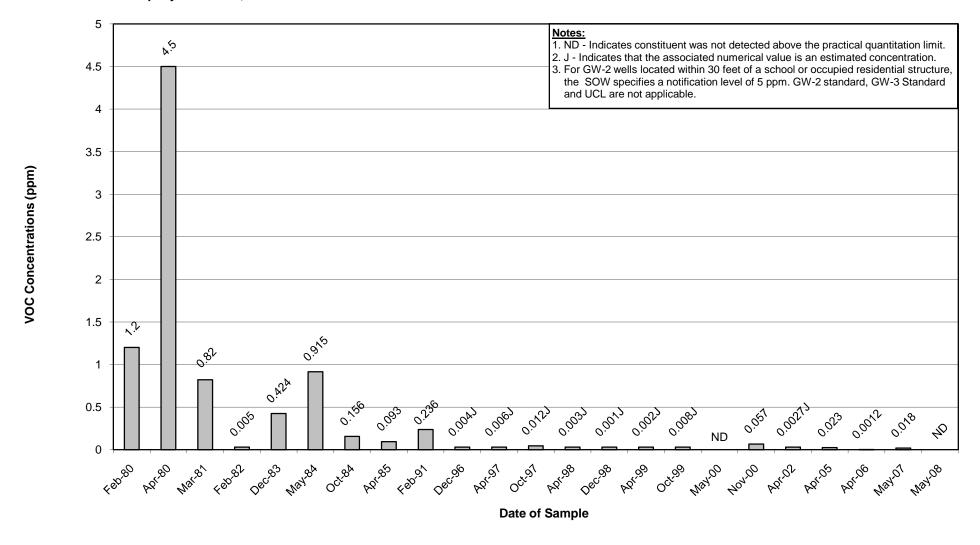
Appendix F
Well Historical 16A Total VOC Concentrations



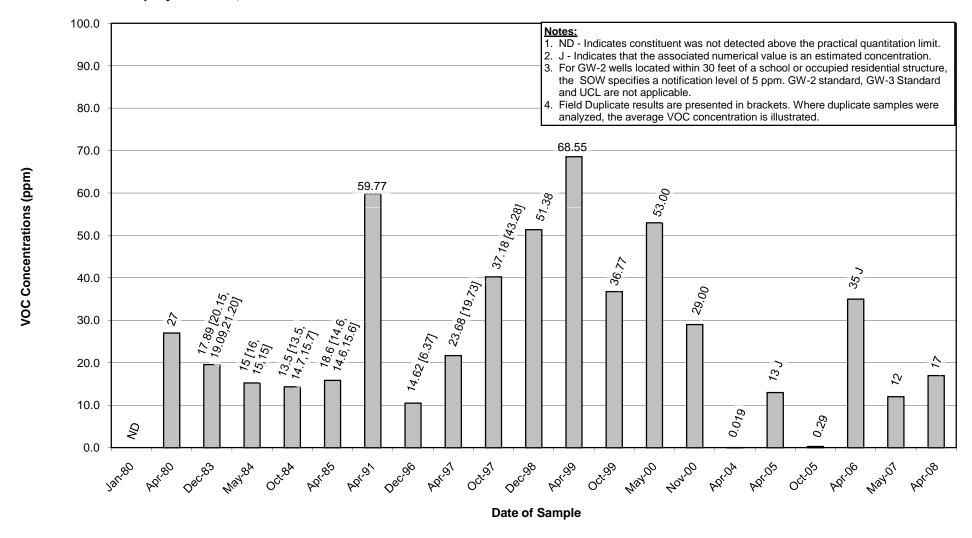
Appendix F
Well Historical 16B-R Total VOC Concentrations



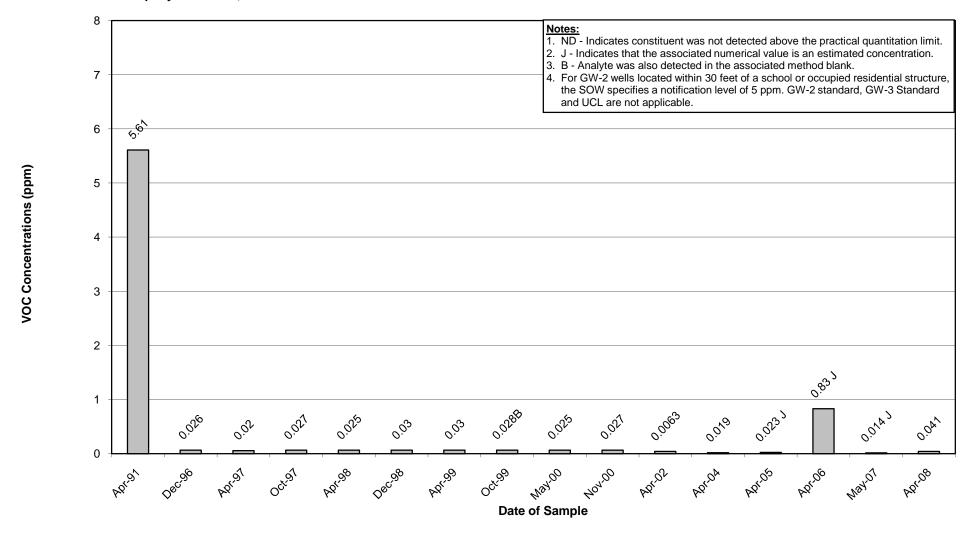
Appendix F
Well Historical 16C-R Total VOC Concentrations



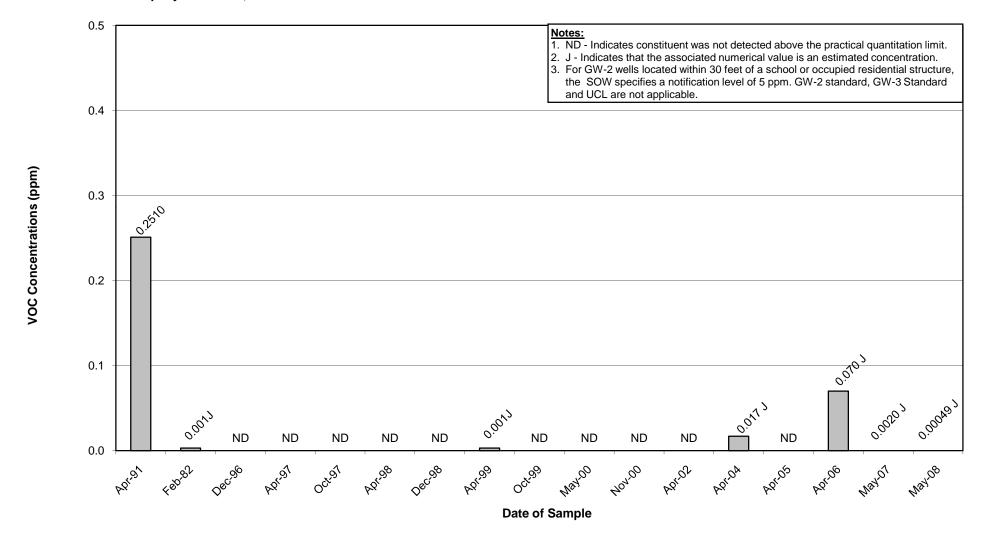
Appendix F
Well Historical 39B-R Total VOC Concentrations



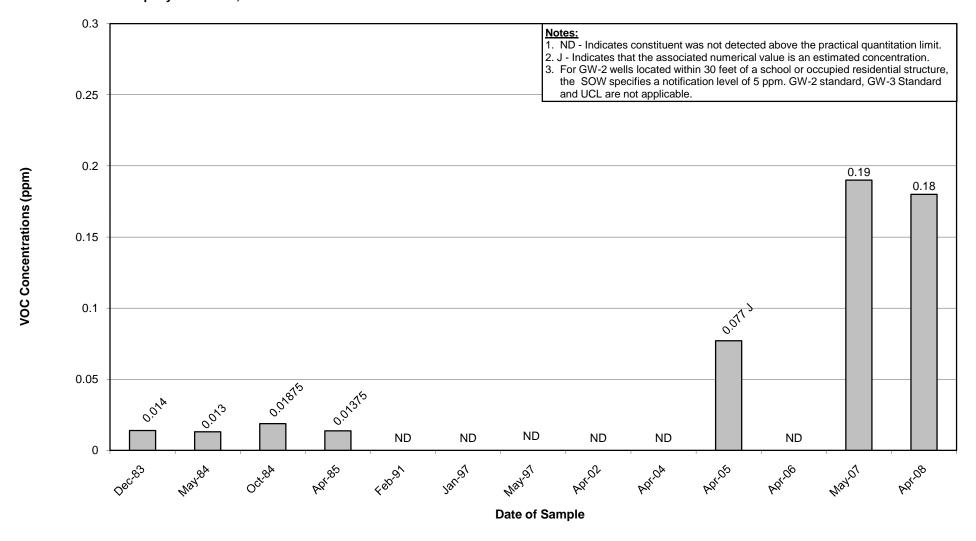
Appendix F
Well Historical 39D-R Total VOC Concentrations



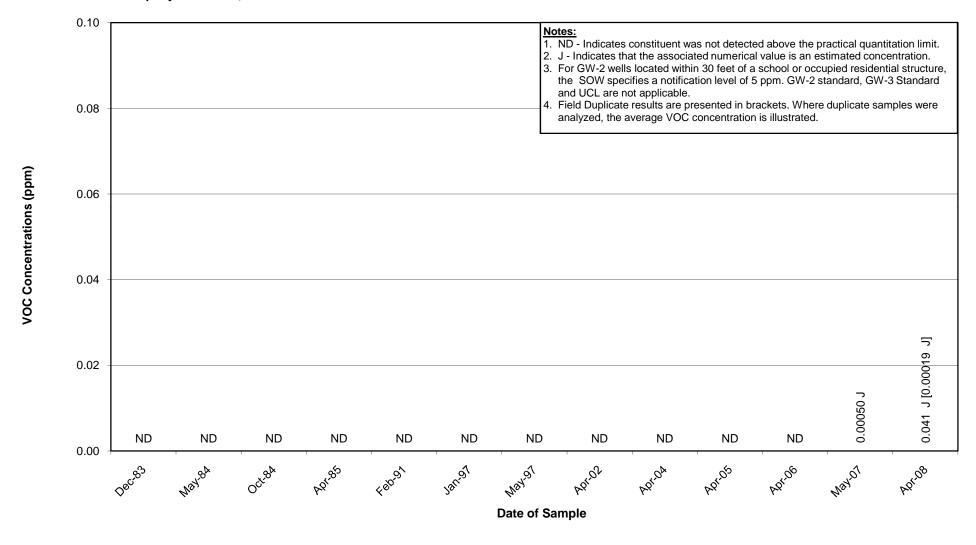
Appendix F
Well Historical 39E Total VOC Concentrations



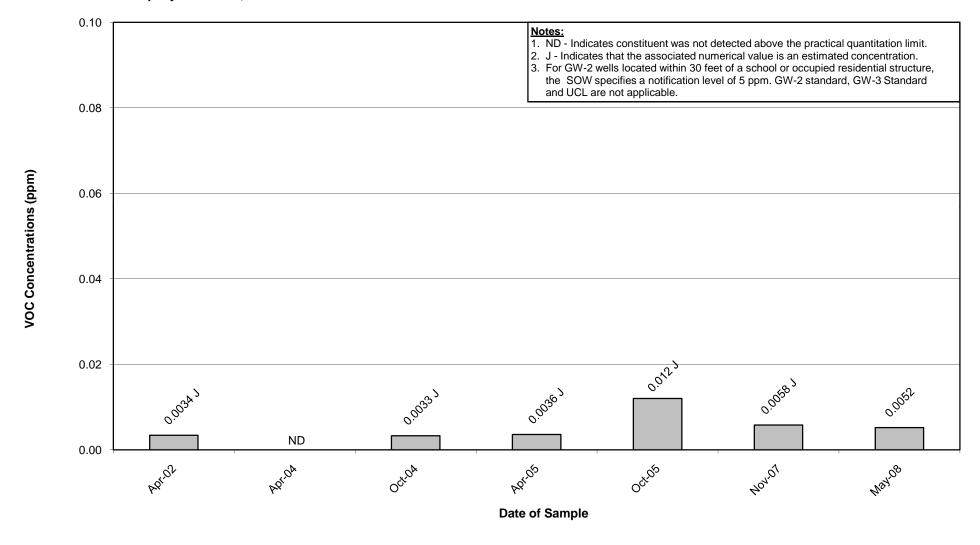
Appendix F
Well Historical 43A Total VOC Concentrations



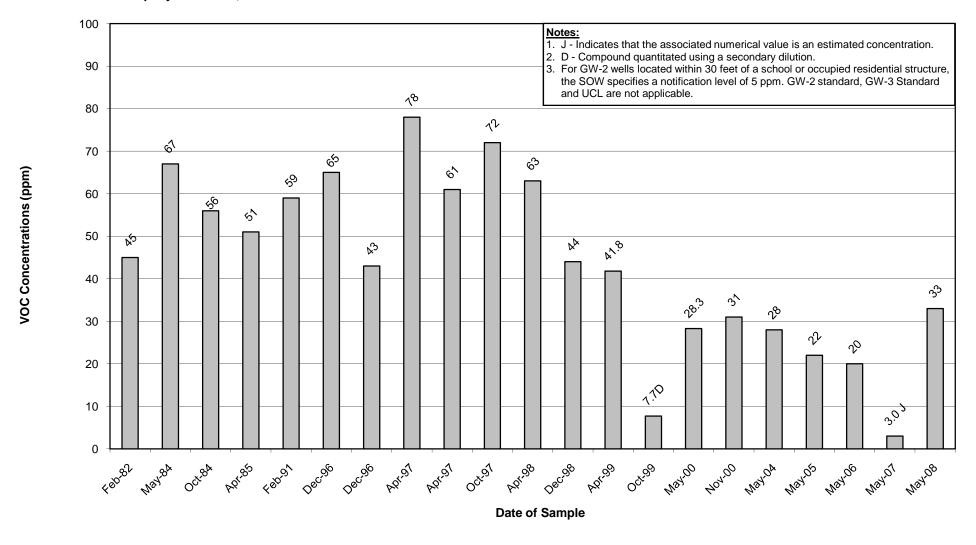
Appendix F
Well Historical 43B Total VOC Concentrations



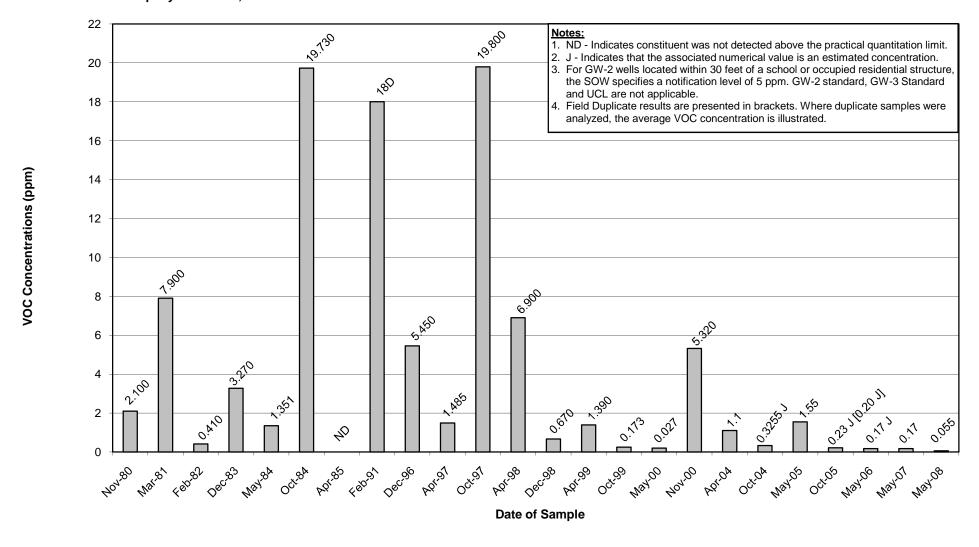
Appendix F
Well Historical 51-14 Total VOC Concentrations



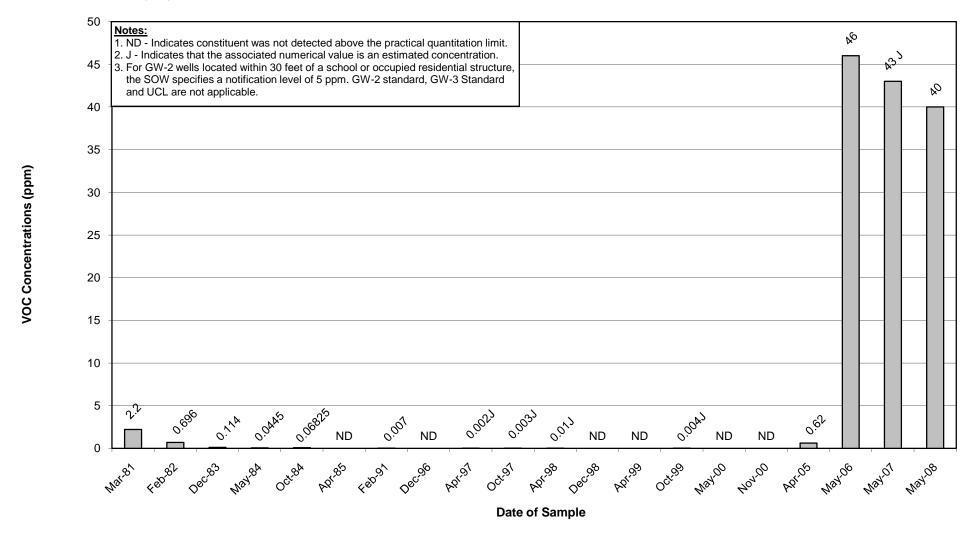
Appendix F
Well Historical 89A Total VOC Concentrations



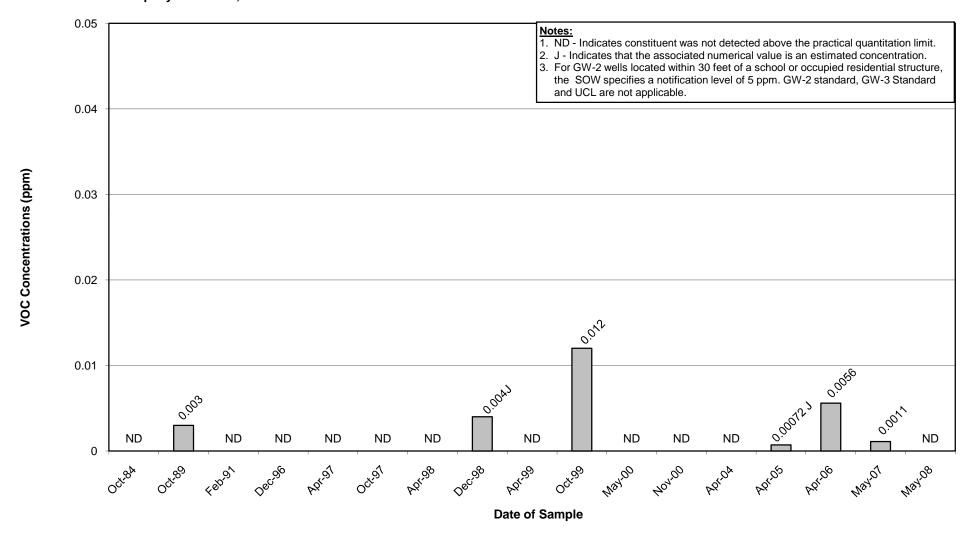
Appendix F
Well Historical 89B Total VOC Concentrations



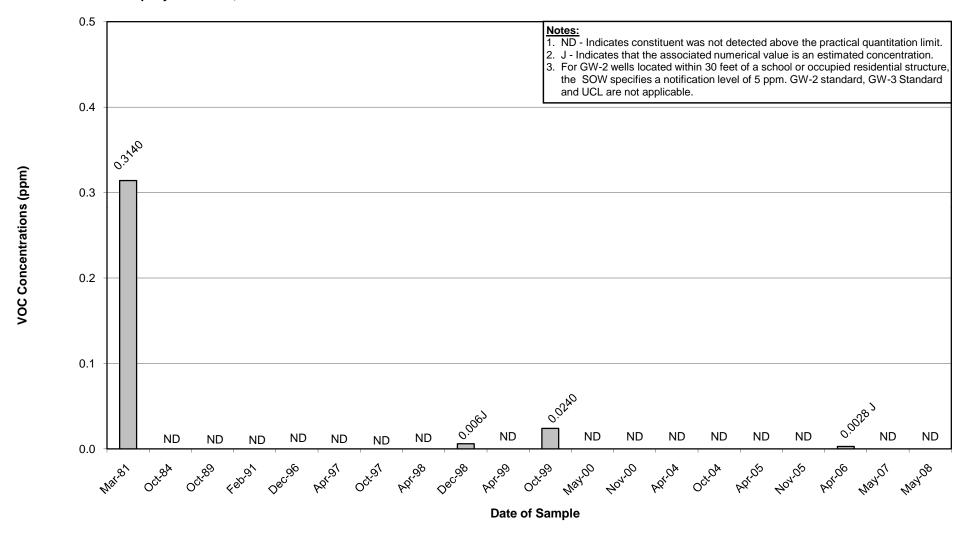
Appendix F
Well Historical 89D-R Total VOC Concentrations



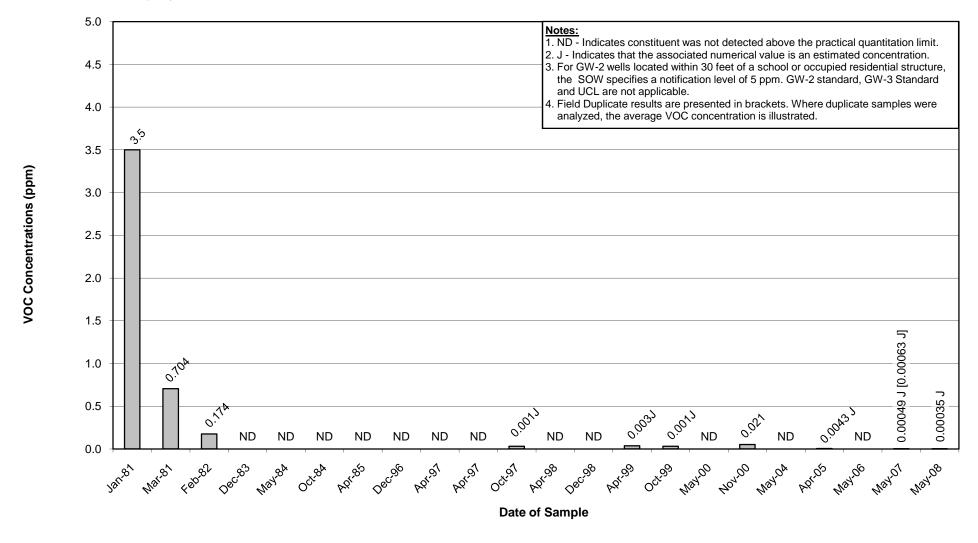
Appendix F
Well Historical 90A Total VOC Concentrations



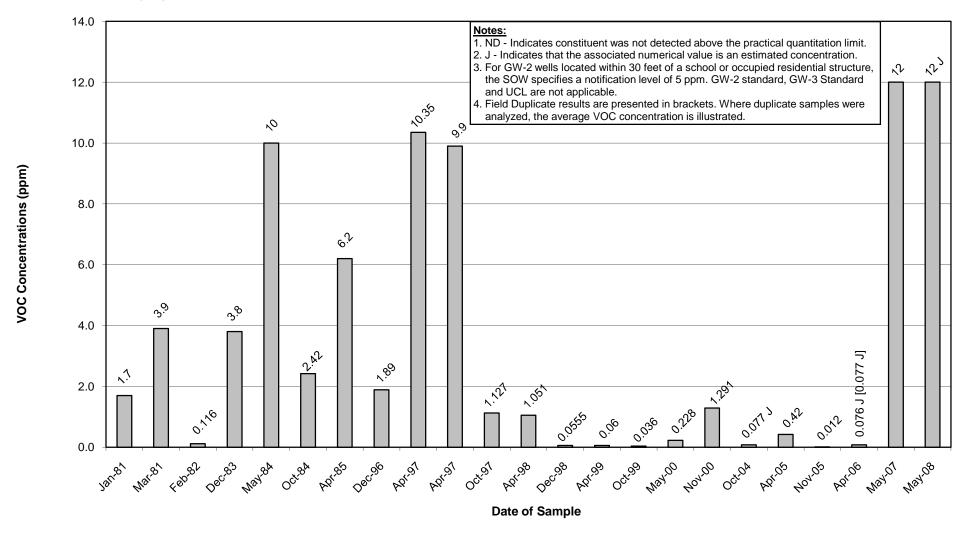
Appendix F
Well Historical 90B Total VOC Concentrations



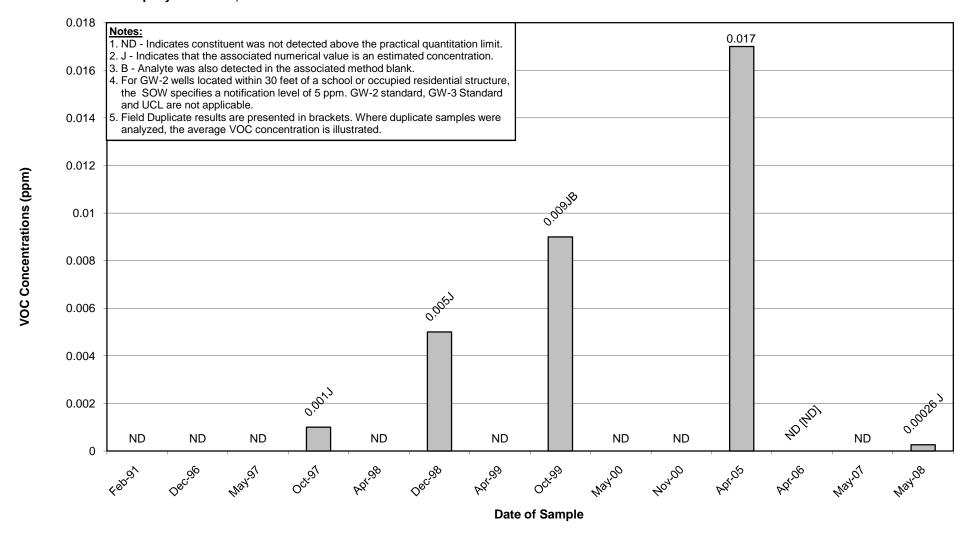
Appendix F
Well Historical 95A Total VOC Concentrations



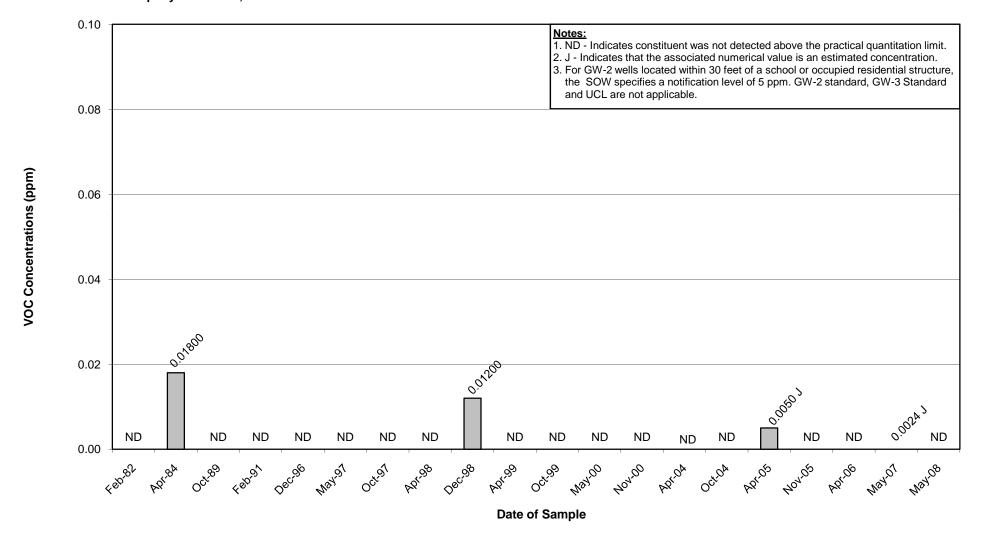
Appendix F
Well Historical 95B-R Total VOC Concentrations



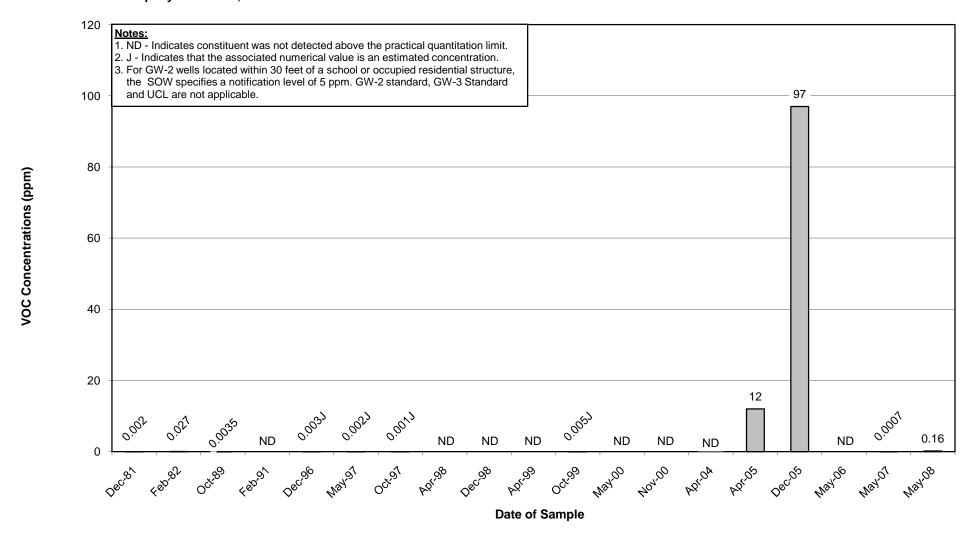
Appendix F
Well Historical 111A-R Total VOC Concentrations



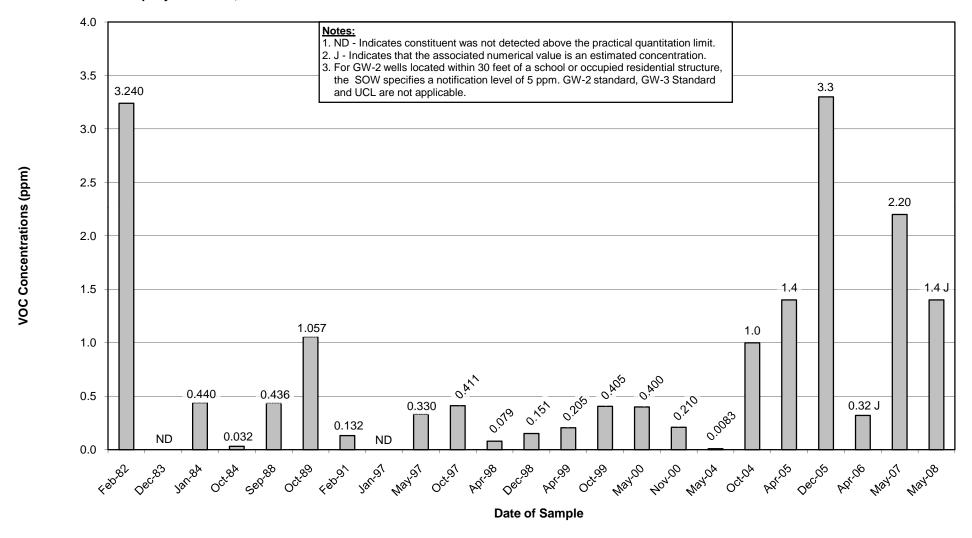
Appendix F
Well Historical 111B-R Total VOC Concentrations



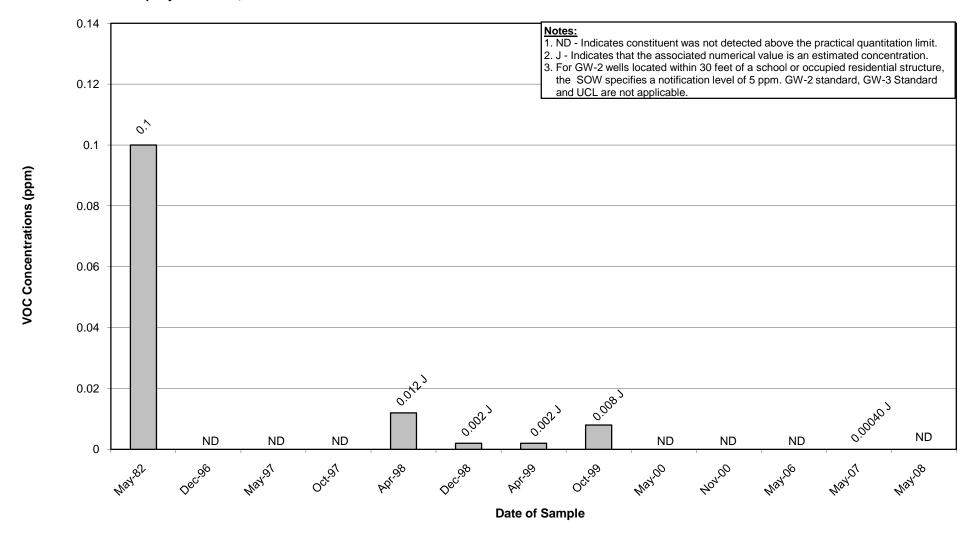
Appendix F
Well Historical 114A Total VOC Concentrations



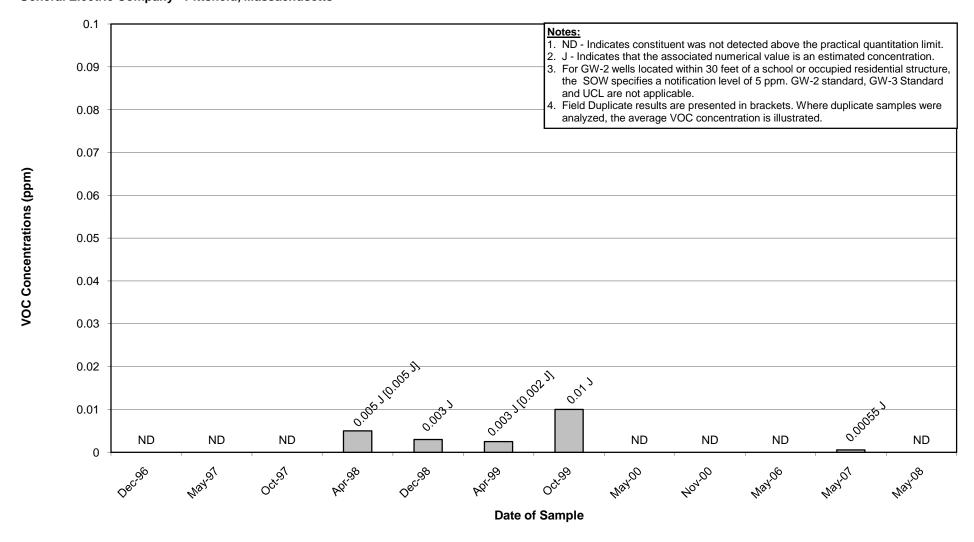
Appendix F
Well Historical 114B-R Total VOC Concentrations



Appendix F
Well Historical 115A Total VOC Concentrations



Appendix F
Well Historical 115B Total VOC Concentrations

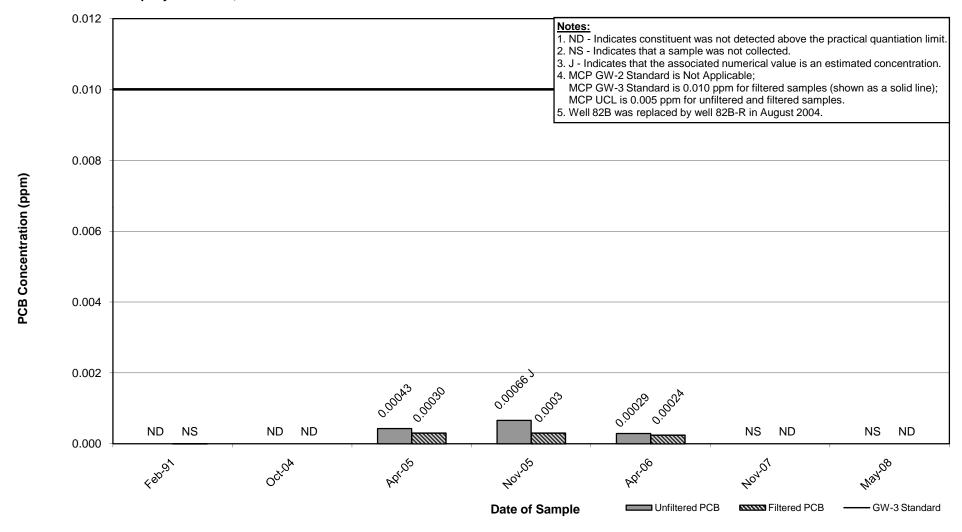


### **ARCADIS**

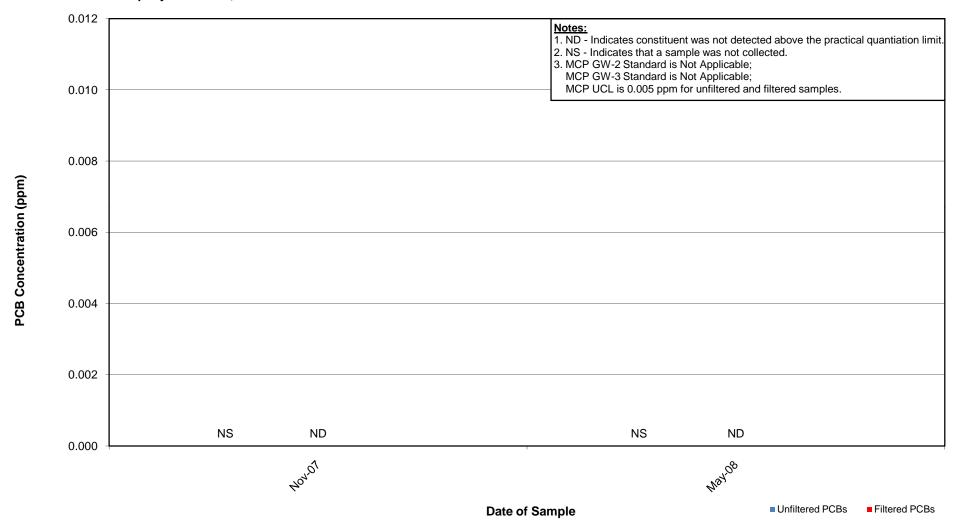
#### **Historical Groundwater Data**

Total PCB Concentrations – Wells Sampled in Spring 2008

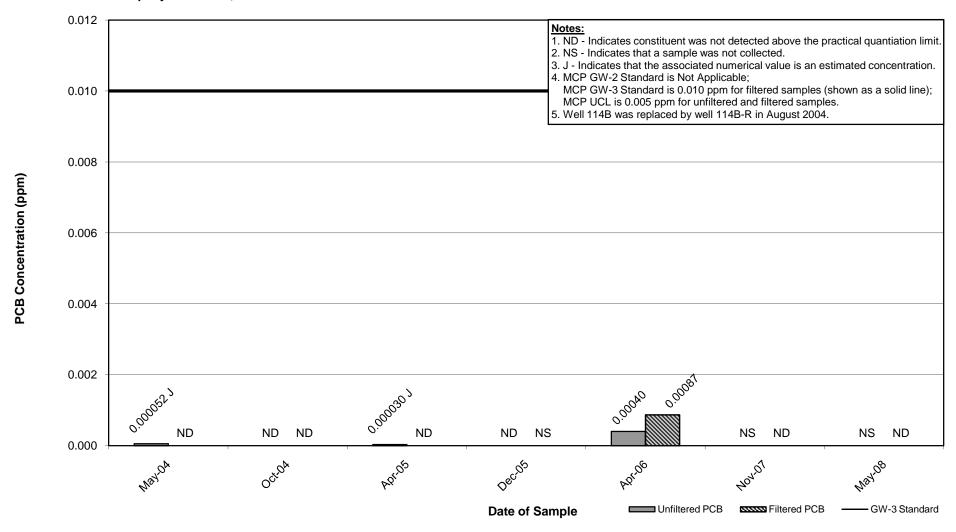
Appendix F
Well 82B-R Historical Total PCB Concentrations



Appendix F
Well 114A Historical Total PCB Concentrations



Appendix F
Well 114B-R Historical Total PCB Concentrations

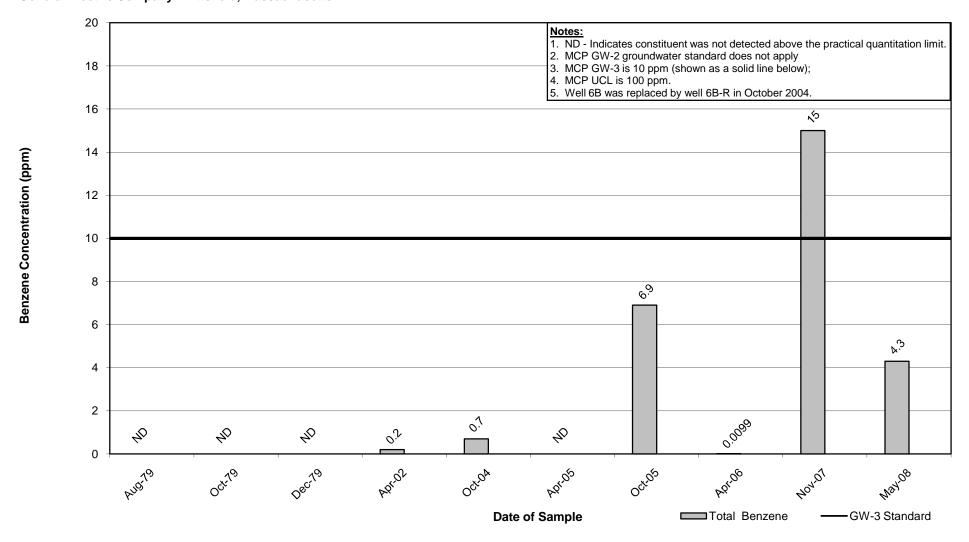


### **ARCADIS**

#### **Historical Groundwater Data**

Benzene Concentrations – Selected Wells Sampled in Spring 2008

Appendix F
Well 6B/6B-R Historical Benzene Concentrations

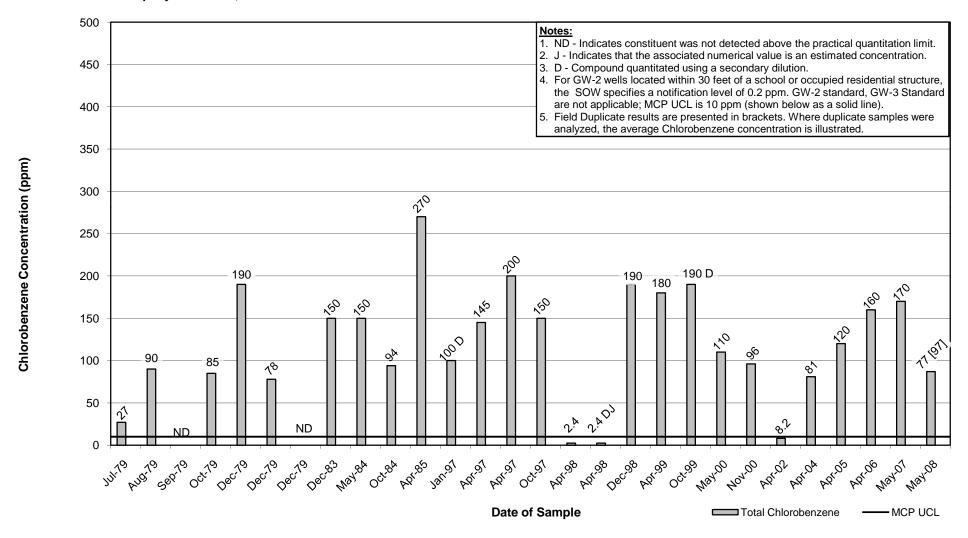


### **ARCADIS**

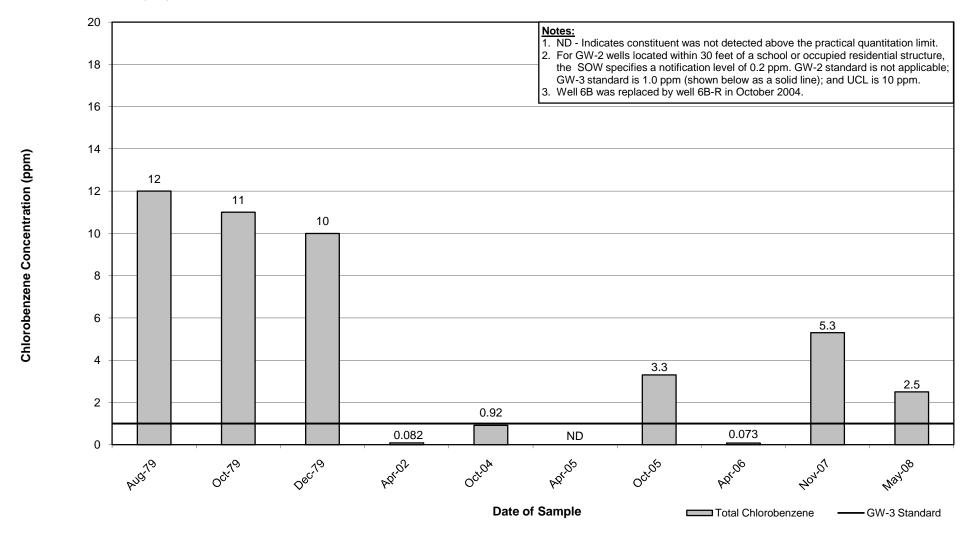
#### **Historical Groundwater Data**

Chlorobenzene Concentrations – Selected Wells Sampled in Spring 2008

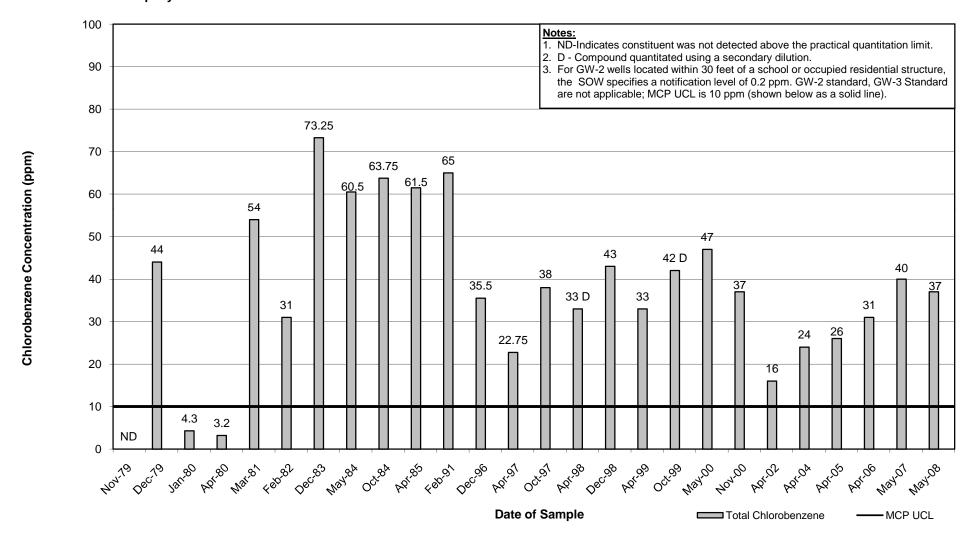
Appendix F
Well 2A Historical Chlorobenzene Concentrations



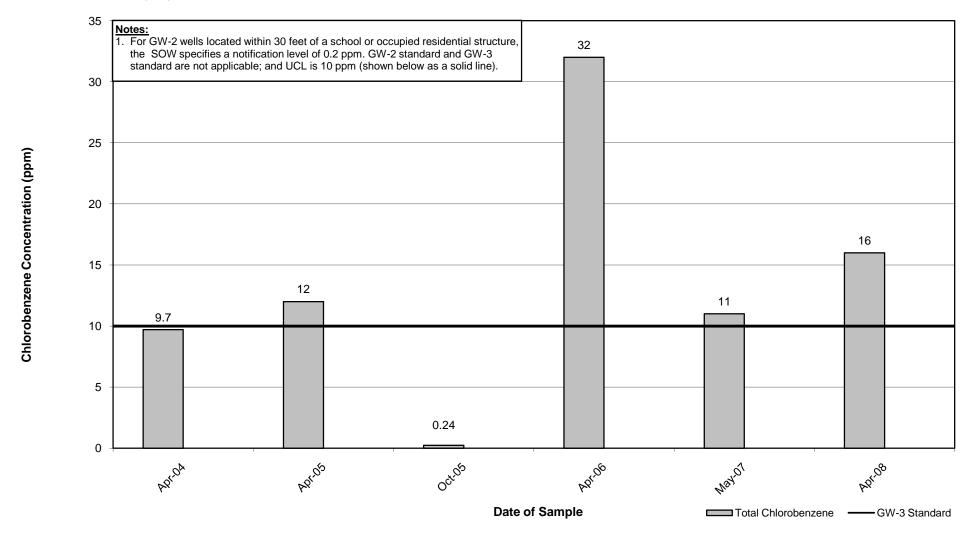
Appendix F
Well 6B & 6B-R Historical Chlorobenzene Concentrations



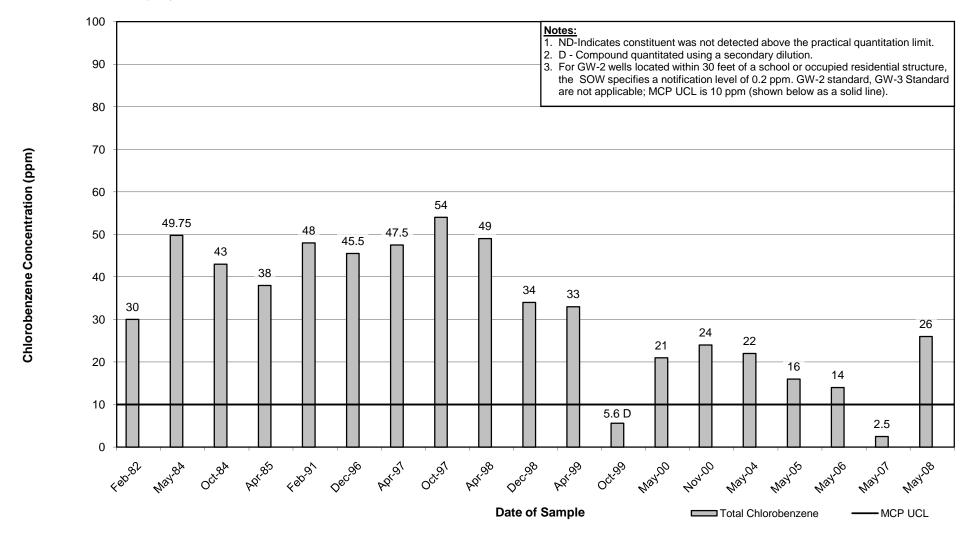
Appendix F
Well 16A Historical Chlorobenzene Concentrations



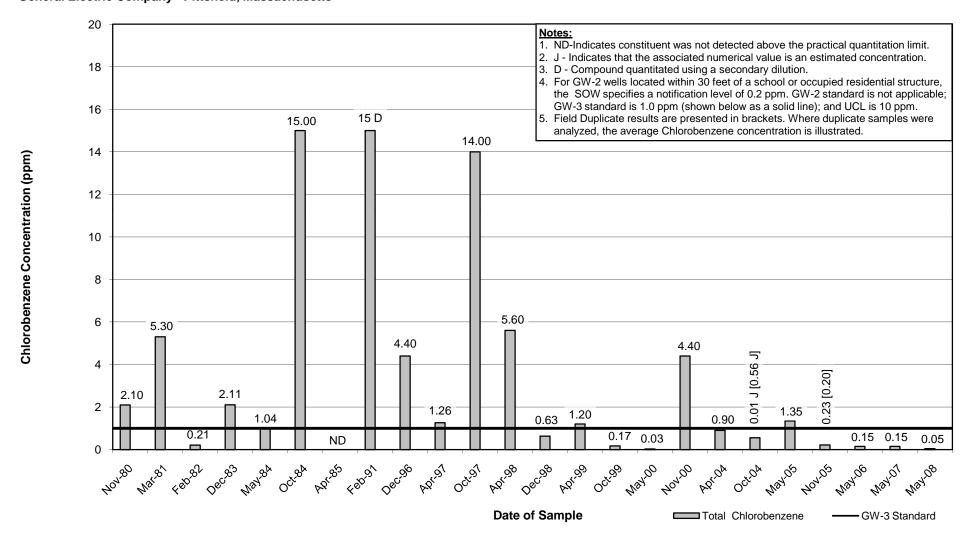
Appendix F
Well 39B-R Historical Chlorobenzene Concentrations



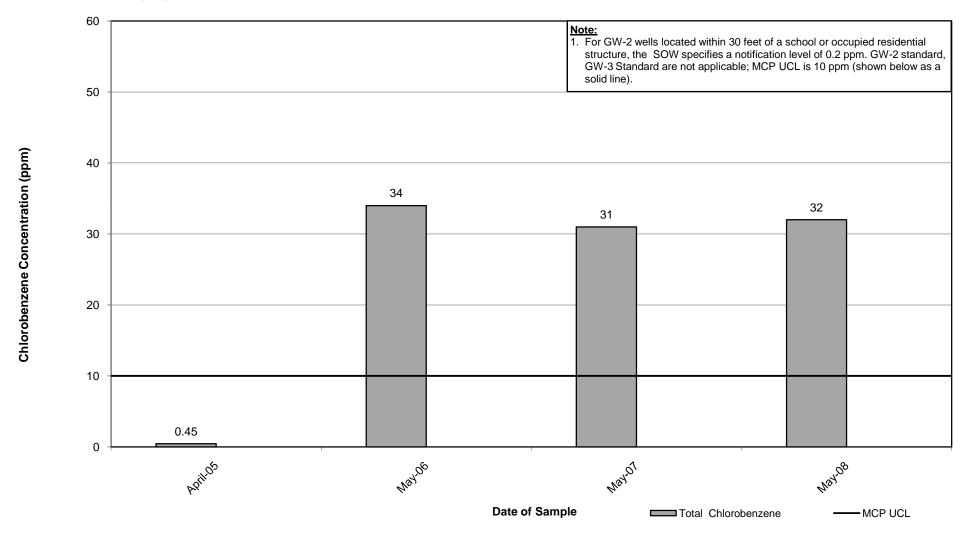
Appendix F
Well 89A Historical Chlorobenzene Concentrations



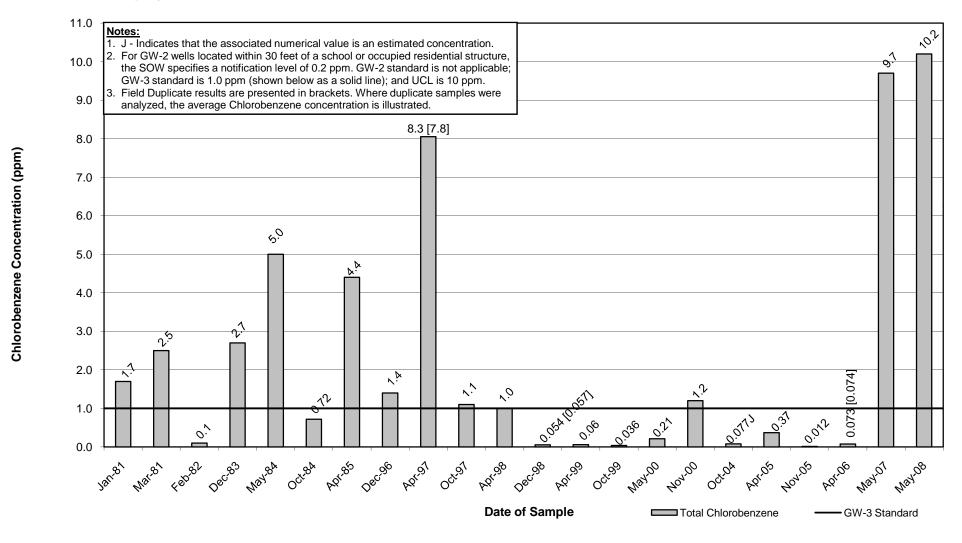
Appendix F
Well 89B Historical Chlorobenzene Concentrations



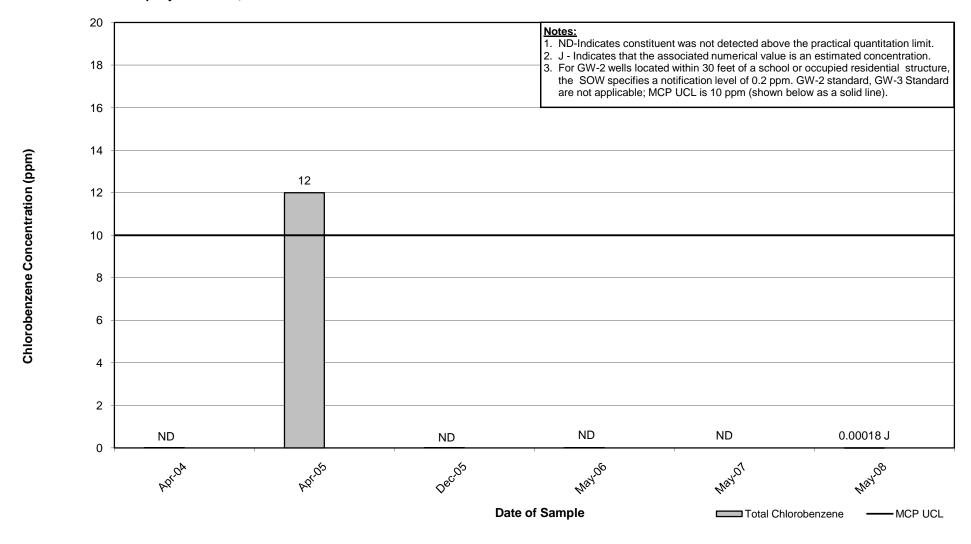
Appendix F
Well 89D-R Historical Chlorobenzene Concentrations



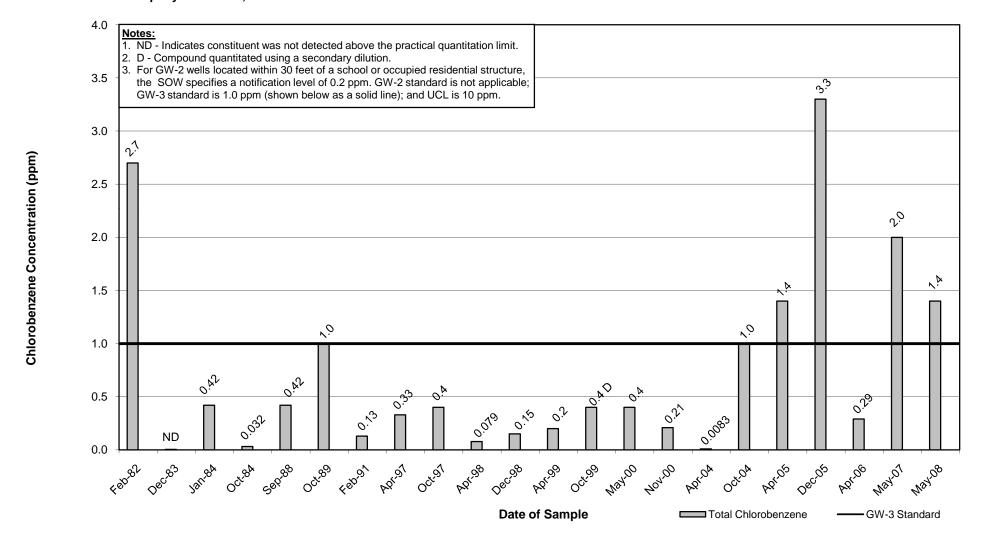
Appendix F
Well 95B & 95B-R Historical Chlorobenzene Concentrations



Appendix F
Well 114A Historical Chlorobenzene Concentrations



Appendix F
Well 114B &114B-R Historical Chlorobenzene Concentrations

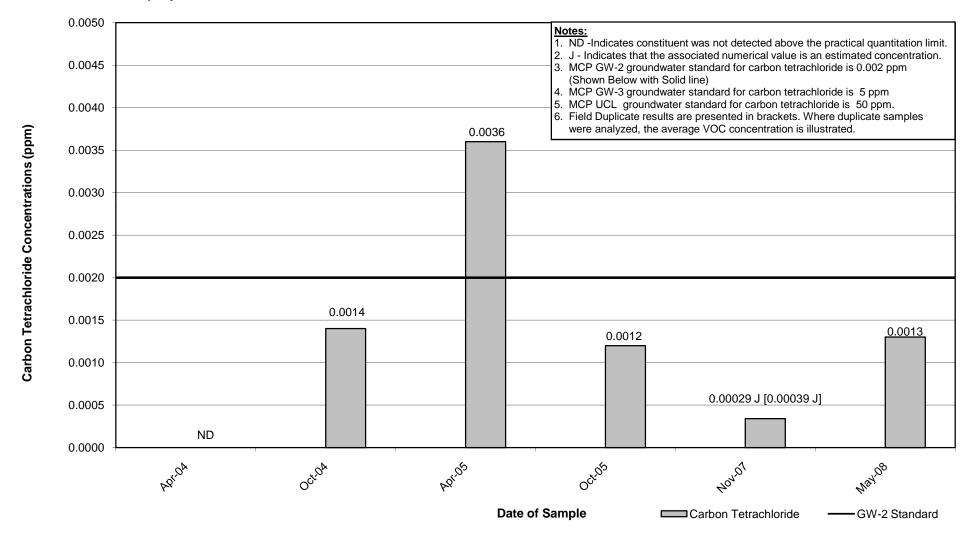


### **ARCADIS**

#### **Historical Groundwater Data**

Carbon Tetrachloride Concentrations – Selected Wells Sampled in Spring 2008

Appendix F
Well 51-14 Historical Carbon Tetrachloride Concentrations



Page 1 of 1 8/28/2008